

GenCore version 5.1.7
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OM nucleic - nucleic search, using sw model

Run on: February 14, 2006, 03:07:34 ; Search time 2675 Seconds
(without alignments)
11014.502 Million cell updates/sec

Title: US-10-035-045-20
Perfect score: 3563
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Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 9793542 seqs, 4134689005 residues

Total number of hits satisfying chosen parameters: 19587084

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Published Applications NA.Main:*
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match %	Length	ID	Description
1	3563	100.0	3563	3	US-09-799-629-20 Sequence 20, Appl
2	3563	100.0	3563	5	US-10-035-045-20 Sequence 20, Appl
3	3563	100.0	3563	7	US-10-725-081-20 Sequence 20, Appl
4	3563	100.0	3563	7	US-10-724-223-20 Sequence 20, Appl
5	3563	100.0	3563	8	US-10-724-222-20 Sequence 20, Appl
6	3563	100.0	3563	8	US-10-725-276-20 Sequence 20, Appl
7	3563	100.0	3563	8	US-10-726-568-20 Sequence 20, Appl
8	3563	100.0	3563	8	US-10-725-284-20 Sequence 20, Appl
9	3403.8	95.5	8001	5	US-10-261-482-3 Sequence 3, Appl
10	3398.6	95.4	4256	6	US-10-292-798-601 Sequence 689, App
11	3354.2	94.1	7084	6	US-10-017-161-689 Sequence 13, Appl
12	3088.2	86.7	3200	3	US-09-927-315-13 Sequence 13, Appl
13	3088.2	86.7	3200	6	US-10-190-417-13 Sequence 13, Appl
14	3088.2	86.7	3200	9	US-10-679-102-13 Sequence 592, App
15	2965.4	83.2	3115	5	US-10-225-567A-592 Sequence 2, Appl
16	2687	75.4	2687	5	US-09-799-629-2 Sequence 2, Appl
17	2687	75.4	2687	5	US-10-035-045-2 Sequence 2, Appl
18	2687	75.4	2687	7	US-10-725-081-2 Sequence 2, Appl
19	2687	75.4	2687	7	US-10-724-223-2 Sequence 2, Appl
20	2687	75.4	2687	8	US-10-724-222-2 Sequence 2, Appl
21	2687	75.4	2687	8	US-10-725-276-2 Sequence 2, Appl
22	2687	75.4	2687	8	US-10-726-568-2 Sequence 2, Appl
23	2687	75.4	2687	8	US-10-725-284-2 Sequence 2, Appl

24	2157.4	60.6	2685	7	US-10-436-715-5	Sequence 5, Appl
25	2099.2	58.9	3489	3	US-09-796-338A-13	Sequence 13, Appl
26	2099.2	58.9	3489	3	US-10-282-837-13	Sequence 13, Appl
27	2099.2	58.9	3489	6	US-10-145-586-13	Sequence 13, Appl
28	2099.2	58.9	3489	6	US-10-407-079-89	Sequence 89, Appl
29	2086.2	58.6	3446	6	US-10-159-339-1	Sequence 1, Appl
30	2083.8	58.5	2729	9	US-10-892-632-1	Sequence 1, Appl
31	2080.4	58.4	3458	5	US-10-261-482-1	Sequence 12, Appl
32	2080	58.4	2729	7	US-10-311-196-12	Sequence 1, Appl
33	1961.4	55.0	2592	7	US-10-436-715-1	Sequence 14, Appl
34	1917	53.8	2579	7	US-10-188-186-147	Sequence 147, App
35	1905.8	53.5	2565	9	US-10-941-340-215	Sequence 215, App
36	1905.8	53.5	2565	9	US-10-941-340-216	Sequence 216, App
37	1897	53.2	2559	3	US-09-927-315-14	Sequence 14, Appl
38	1897	53.2	2559	5	US-10-035-045-3	Sequence 14, Appl
39	1897	53.2	2559	6	US-10-190-417-14	Sequence 9, Appl
40	1897	53.2	2559	6	US-10-179-373-9	Sequence 9, Appl
41	1897	53.2	2559	8	US-10-725-103-9	Sequence 9, Appl
42	1897	53.2	2559	8	US-10-725-489-9	Sequence 9, Appl
43	1897	53.2	2559	8	US-10-725-080A-9	Sequence 9, Appl
44	1897	53.2	2559	8	US-10-725-472A-9	Sequence 3, Appl
45	1897	53.2	2559	8	US-10-725-276-3	Sequence 3, Appl

ALIGNMENTS

RESULT 1
US-09-799-629-20
; Sequence 20, Application US/09799629
; Publication No. US20030008344A1
; GENERAL INFORMATION:
; APPLICANT: ADLER, JON ELLIOT
; APPLICANT: ZOZULIYA, SERGEY
; APPLICANT: LI, XIADONG
; APPLICANT: O'CONNELL, SHAWN
; APPLICANT: STASZEWSKI, LENA
; TITLE OF INVENTION: T1R TASTE RECEPTORS AND GENES ENCODING SAME
; FILE REFERENCE: 078003/027870/RXT
; CURRENT APPLICATION NUMBER: US/09/799,629
; CURRENT FILING DATE: 2001-03-07
; PRIOR APPLICATION NUMBER: 60/187,546
; PRIOR FILING DATE: 2000-03-07
; PRIOR APPLICATION NUMBER: 60/195,536
; PRIOR FILING DATE: 2000-04-07
; PRIOR APPLICATION NUMBER: 60/209,840
; PRIOR FILING DATE: 2000-06-06
; PRIOR APPLICATION NUMBER: 60/214,213
; PRIOR FILING DATE: 2000-06-23
; PRIOR APPLICATION NUMBER: 60/226,448
; PRIOR FILING DATE: 2000-08-17
; PRIOR APPLICATION NUMBER: 60/259,227
; PRIOR FILING DATE: 2001-01-03
; NUMBER OF SEQ ID NOS: 20
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 20
; LENGTH: 3563
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-799-629-20

Query Match 100.0%; Score 3563; DB 3; Length 3563;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 3563; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Db ||||| 481 CTGCGGTCTGTGTGGCCCGCAGGTCTCTCTAAACGGCCCTGTCTGGGCACTGGCCATGA 540
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QY ||||| 1381 GCTGCCCGCATGGCCAGATGGGCAAGGTGTGGCTTCTCCAGAGGGTGGCCAGCT 1440
Db ||||| 1381 GCTGCCCGCATGGCCAGATGGGCAAGGTGTGGCTTCTCCAGAGGGTGGCCAGCT 1440
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Db ||||| 1501 CTCTGCGCTGGGCGAGGAGGACAGGGTCTGGAGGAGACGTGGTGGGCGAGCGCTGCC 1560
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Qy 661 TGGCCAAAGCAGGACGCGCGACATCGCCGCCCTACTGCAACTACACGAGTACAGGCCCC 720
Db 661 TGGCCAAAGCAGGACGCGCGACATCGCCGCCCTACTGCAACTACACGAGTACAGGCCCC 720
Qy 721 GTGTGCTGCTCATCGGGGCCCACTCGTCAAGAGTGGCATGTGTACCGGCAAGTTCT 780
Db 721 GTGTGCTGCTCATCGGGGCCCACTCGTCAAGAGTGGCATGTGTACCGGCAAGTTCT 780
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Db 961 GGAGCTGTGAGCGCCCGGAGACCTTCCCTCTCTTCCGCAACCGTCCCGCAGCGACCG 1020
Qy 1021 TGTGAGCTGACCGGCGCGCGAGCTGTGTCAGAGTTCGGCTGGAATCGGGTGGCCGC 1080
Db 1021 TGTGAGCTGACCGGCGCGCGAGCTGTGTCAGAGTTCGGCTGGAATCGGGTGGCCGC 1080
Qy 1081 CTTGGCAGCAGACGAGTACGCGCGGAGGCTGAGCATCTTCTGGGCCCTGGCCGC 1140
Db 1081 CTTGGCAGCAGACGAGTACGCGCGGAGGCTGAGCATCTTCTGGGCCCTGGCCGC 1140
Qy 1141 GGCAGCGGCATCTGCATCGCACAGAGGCTGTGTCGCGCTGCGCCCGCGATGACTC 1200
Db 1141 GGCAGCGGCATCTGCATCGCGCACAGAGGCTGTGTCGCGCTGCGCCCGCGATGACTC 1200
Qy 1201 GCGGCTGGGGAAGTGCAGGACGTCCTGCAACAGGTGAACAGAGCAGCGTGCAGTGT 1260
Db 1201 GCGGCTGGGGAAGTGCAGGACGTCCTGCAACAGGTGAACAGAGCAGCGTGCAGTGT 1260
Qy 1261 GCTGTGTTCCCGTAGCTGAGCGCGCCACCGCCCTCTTCAACTACAGCATCAGCAGCAG 1320
Db 1261 GCTGTGTTCCCGTAGCTGAGCGCGCCACCGCCCTCTTCAACTACAGCATCAGCAGCAG 1320
Qy 1321 GCTTCGCCCAAGTGTGGGTGGCGCAGCAGGCTGGCTGACCTCTGACCTGGTCAATGGG 1380
Db 1321 GCTTCGCCCAAGTGTGGGTGGCGCAGCAGGCTGGCTGACCTCTGACCTGGTCAATGGG 1380
Qy 1381 GCTGCCCGGCATGGCCAGATGGGCAACGCTGTGGCTTCTTCCAGAGGGGTGCCAGCT 1440
Db 1381 GCTGCCCGGCATGGCCAGATGGGCAACGCTGTGGCTTCTTCCAGAGGGGTGCCAGCT 1440
Qy 1441 GCACAGTTTCCCGTAGCTGAGACGCACTTGGCCCTGGGCGACCGACCGCCCTTCTG 1500
Db 1441 GCACAGTTTCCCGTAGCTGAGACGCACTTGGCCCTGGGCGACCGACCGCCCTTCTG 1500
Qy 1501 CTTGCGCCCTGGCGAGAGGAGCAGGGTCTTGAGAGGACGCTGGTGGGCGACGCTGCC 1560
Db 1501 CTTGCGCCCTGGCGAGAGGAGCAGGGTCTTGAGAGGACGCTGGTGGGCGACGCTGCC 1560
Qy 1561 GCAGTGTGATGATCATCGCTGCAGAACTGAGCGCAGGGCTAAATACCAACAGACGTT 1620
Db 1561 GCAGTGTGATGATCATCGCTGCAGAACTGAGCGCAGGGCTAAATACCAACAGACGTT 1620
Qy 1621 CTTGTCTACGAGCTGTGTATAGCTGCGCCAGGCCCTGCAACACTTCTCAGTGCNA 1680
Db 1621 CTTGTCTACGAGCTGTGTATAGCTGCGCCAGGCCCTGCAACACTTCTCAGTGCNA 1680
Qy 1681 CGCCTCAGGCTGCCCGCGCAGGACCCCGTGAAGCCCTGGCAGGTGAGCCCGGAGATGG 1740
Db 1681 CGCCTCAGGCTGCCCGCGCAGGACCCCGTGAAGCCCTGGCAGGTGAGCCCGGAGATGG 1740

Qy 1741 GGGTGTGCTGTCTCTGTCATGTGCCAGGCCACAGGCCACCGCCACACGCTGAGCTGG 1800
Db 1741 GGGTGTGCTGTCTCTGTCATGTGCCAGGCCACAGGCCACCGCCACACGCTGAGCTGG 1800
Qy 1801 AGGTGGCTGGGGGCTCAGCCCCCGTCCCGCCGCGCAGCTCTCTGGAGAACTGTACAACCT 1860
Db 1801 AGGTGGCTGGGGGCTCAGCCCCCGTCCCGCCGCGCAGCTCTCTGGAGAACTGTACAACCT 1860
Qy 1861 GACCTTCCACGTGGGCGGGCTGCGCTGTGACAGCAGCGGAAACGTTGGGAATGGA 1920
Db 1861 GACCTTCCACGTGGGCGGGCTGCGCTGTGACAGCAGCGGAAACGTTGGGAATGGA 1920
Qy 1921 GTACACACTGAAGCTGTGGGTGTGCGAGGCTCAGTGCCTCAGGCTCCACGAGCTGGGCGAG 1980
Db 1921 GTACACACTGAAGCTGTGGGTGTGCGAGGCTCAGTGCCTCAGGCTCCACGAGCTGGGCGAG 1980
Qy 1981 GTTCAAACGGCAGCCTCAGGACAGAGCGCTGAAGATCCGCTGGGCAACAGTCTGACAAACA 2040
Db 1981 GTTCAAACGGCAGCCTCAGGACAGAGCGCTGAAGATCCGCTGGGCAACAGTCTGACAAACA 2040
Qy 2041 GGTGAGGTGAGGGTGGGTGTGCCAGGCTGTGCCGTGTAGCCCCCGCGCAGGCGGCGAGC 2100
Db 2041 GGTGAGGTGAGGGTGGGTGTGCCAGGCTGTGCCGTGTAGCCCCCGCGCAGGCGGCGAGC 2100
Qy 2101 CTTGGGGTGGGGGCGGTTCCAGTCTCTCCGTGGGCATGCCAGCCGAGCAGAGCCAGACCC 2160
Db 2101 CTTGGGGTGGGGGCGGTTCCAGTCTCTCCGTGGGCATGCCAGCCGAGCAGAGCCAGACCC 2160
Qy 2161 CAGGCTCTGCGCGCAGAAAGCCGCTGCTCCGCGCAGTGCAGGAGGCGCAGGTG 2220
Db 2161 CAGGCTCTGCGCGCAGAAAGCCGCTGCTCCGCGCAGTGCAGGAGGCGCAGGTG 2220
Qy 2221 GCGCGGTCAAAGGGTTCACCTCTGCTGTACGACTGTGTGGAATGCGAGGCGGCGAGC 2280
Db 2221 GCGCGGTCAAAGGGTTCACCTCTGCTGTACGACTGTGTGGAATGCGAGGCGGCGAGC 2280
Qy 2281 TACCGGCAAAACCCAGGTGAGCGCCCTTCCGCGCAGGCGGGTGGGAACGACAGCGGG 2340
Db 2281 TACCGGCAAAACCCAGGTGAGCGCCCTTCCGCGCAGGCGGGTGGGAACGACAGCGGG 2340
Qy 2341 AGGTCCTCGCAAGTCTTGAATCTGAGACACAGAGCCCAAGGGTACAGAAACACCCA 2400
Db 2341 AGGTCCTCGCAAGTCTTGAATCTGAGACACAGAGCCCAAGGGTACAGAAACACCCA 2400
Qy 2401 GCGCCCTTCTCTCTCTCACAGACATCGCTGCACTTTTGTGGCCAGGATGAGTGG 2460
Db 2401 GCGCCCTTCTCTCTCTCACAGACATCGCTGCACTTTTGTGGCCAGGATGAGTGG 2460
Qy 2461 TCCCGGAGCGAAGCAGACGCTGCTTCCGCGCAGGTCTCGGTTCTTGGCATGGGCGAG 2520
Db 2461 TCCCGGAGCGAAGCAGACGCTGCTTCCGCGCAGGTCTCGGTTCTTGGCATGGGCGAG 2520
Qy 2521 CCGGCTGTGCTGCTGCTGCTGCTGAGCCTGCGGCTGGGCTTGTGTGCTGCTGT 2580
Db 2521 CCGGCTGTGCTGCTGCTGCTGCTGAGCCTGCGGCTGGGCTTGTGTGCTGCTGT 2580
Qy 2581 TTGGGGCTGTTTGGTTTCAATCGGAGACGCGCACTGGTTTCAAGCCTCGGGGGGGCCCTG 2640
Db 2581 TTGGGGCTGTTTGGTTTCAATCGGAGACGCGCACTGGTTTCAAGCCTCGGGGGGGCCCTG 2640
Qy 2641 GCCTGCTTGGGCTGGTGTGCTGGGCTGTGCTGCTCAGGCTCCTCTGTTCCCTGGC 2700
Db 2641 GCCTGCTTGGGCTGGTGTGCTGGGCTGTGCTGCTCAGGCTCCTCTGTTCCCTGGC 2700
Qy 2701 CAGCCAGCCTTCCGATGCTGGCCCGCAGAGCCCTTGTCCCACTCCCGCTCAGGGGC 2760
Db 2701 CAGCCAGCCTTCCGATGCTGGCCCGCAGAGCCCTTGTCCCACTCCCGCTCAGGGGC 2760
Qy 2761 TGCCTGAGACACTCTTCTCTGAGGCGCGGAGATCTTCTGTTGGAGTCAAGACTGCTCTG 2820
Db 2761 TGCCTGAGACACTCTTCTCTGAGGCGCGGAGATCTTCTGTTGGAGTCAAGACTGCTCTG 2820

Qy	841	CCTGCCCGCTGGGAGCCCTTGTGTCTCAGGAGAAATGCTACATGCACCCACCCAGCCCTGC	900
Db	841	CCTGCCCGCTGGGAGCCCTTGTGTCTCAGGAGAAATGCTACATGCACCCACCCAGCCCTGC	900
Qy	901	CCTGGGAGCCCTGTGTCTCAGAAAGATGCTCTTTGGCTTTGCAGGTGACGTACGGTGCCTAGCAT	960
Db	901	CCTGGGAGCCCTGTGTCTCAGAAAGATGCTCTTTGGCTTTGCAGGTGACGTACGGTGCCTAGCAT	960
Qy	961	GGAGCTCTGAGCGCCCGGGAGACCTTCCCTCTCTCTTCGGCACCGTGCACCGACGACCG	1020
Db	961	GGAGCTCTGAGCGCCCGGGAGACCTTCCCTCTCTCTTCGGCACCGTGCACCGACGACCG	1020
Qy	1021	TGTCAGCTGACGGCCCGCGGAGCTGTCTGCAGGAGTTCCGGCTGGAACTTGGGTGGCCGC	1080
Db	1021	TGTCAGCTGACGGCCCGCGGAGCTGTCTGCAGGAGTTCCGGCTGGAACTTGGGTGGCCGC	1080
Qy	1081	CCTGGGAGCGAAGACGAGTACGGCCGGCAGGGCTGAGCATCTTTCGGCCCTTGCGCCGC	1140
Db	1081	CCTGGGAGCGAAGACGAGTACGGCCGGCAGGGCTGAGCATCTTTCGGCCCTTGCGCCGC	1140
Qy	1141	GGCAGCGGGCATCTGTCATCGGGCAGGAGGCTTGGTGCCTGCCCTGGTGCCTGACATC	1200
Db	1141	GGCAGCGGGCATCTGTCATCGGGCAGGAGGCTTGGTGCCTGCCCTGGTGCCTGACATC	1200
Qy	1201	GGGCTCTGGGAAGGTGACGAGACGTCTCTGCACACGAGTGAAACAGAGCAGCGTCGAGTGGT	1260
Db	1201	GGGCTCTGGGAAGGTGACGAGACGTCTCTGCACACGAGTGAAACAGAGCAGCGTCGAGTGGT	1260
Qy	1261	GCTGCTGTTGGCTCTCCGTGCAACGGCCGCCAGCCCTCTTCAACTACAGCATCAGCAGCAG	1320
Db	1261	GCTGCTGTTGGCTCTCCGTGCAACGGCCGCCAGCCCTCTTCAACTACAGCATCAGCAGCAG	1320
Qy	1321	GCTCTGCCCCAAGTGTGGGTGGCCAGGAGGCTTGGCTGACCTCTGCACTGTGTCATGGG	1380
Db	1321	GCTCTGCCCCAAGTGTGGGTGGCCAGGAGGCTTGGCTGACCTCTGCACTGTGTCATGGG	1380
Qy	1381	GCTGCCCGGCATGGCCCCAGATGGGCAAGGTGCTTGGCTTCTCCAGGAGGGTGCACAGCT	1440
Db	1381	GCTGCCCGGCATGGCCCCAGATGGGCAAGGTGCTTGGCTTCTCCAGGAGGGTGCACAGCT	1440
Qy	1441	GCACGAGTTTCCCCAGTACGTGAAGACGCACCTGGCCCTGGGCCACCGACCCGGCTTCTG	1500
Db	1441	GCACGAGTTTCCCCAGTACGTGAAGACGCACCTGGCCCTGGGCCACCGACCCGGCTTCTG	1500
Qy	1501	CTCTGCCCTTGGCGCAGAGGGAGCAGGCTGTGGAGAGGAAGTGTGGGCGCAGCGCTGCC	1560
Db	1501	CTCTGCCCTTGGCGCAGAGGGAGCAGGCTGTGGAGAGGAAGTGTGGGCGCAGCGCTGCC	1560
Qy	1561	GCAGTGTGACATGATCAGCTGACAGACGTGAGCGCAGGGCTAAATCACCACAGACGTT	1620
Db	1561	GCAGTGTGACATGATCAGCTGACAGACGTGAGCGCAGGGCTAAATCACCACAGACGTT	1620
Qy	1621	CTCTGTCTTACGACGCTGTGTATACGCTGGCCAGCGCTGCACAACTCTTCAGTGCAG	1680
Db	1621	CTCTGTCTTACGACGCTGTGTATACGCTGGCCAGCGCTGCACAACTCTTCAGTGCAG	1680
Qy	1681	CGCCTCAGGCTGCCCGCGCAGGACCCCGCTGAAGCCCTTGGCAGGTGAGCCCGGAGATGG	1740
Db	1681	CGCCTCAGGCTGCCCGCGCAGGACCCCGCTGAAGCCCTTGGCAGGTGAGCCCGGAGATGG	1740
Qy	1741	GGGTGTGCTGTCTCTGATGTGCCAGGCCACAGGCAACCGCCCTGAGCTGG	1800
Db	1741	GGGTGTGCTGTCTCTGATGTGCCAGGCCACAGGCAACCGCCCTGAGCTGG	1800
Qy	1801	AGGTGGCTTGGGGCTTCAGCCCGCTGCCCGCCGACCTCTGGAGAAATGTATACACCT	1860
Db	1801	AGGTGGCTTGGGGCTTCAGCCCGCTGCCCGCCGACCTCTGGAGAAATGTATACACCT	1860
Qy	1861	GACCTTCCACGTGGGCGGGCTGCCCGCTGCGGTTTCGACAGCAGCGGAAACGTGGCATGGA	1920
Db	1861	GACCTTCCACGTGGGCGGGCTGCCCGCTGCGGTTTCGACAGCAGCGGAAACGTGGCATGGA	1920

Qy	1921	GTACGACCTGAAGACTGTGGGTGTGGCAGGGCTCAGTGGCCAGGCTCCA	CGA	CGTGGGCAG	1980
Db	1921	GTACGACCTGAAGCTGTGGGTGTGGCAGGGCTCAGTGGCCAGGCTCCA	CGA	CGTGGGCAG	1980
Qy	1981	GTTCACGGCAGCCTCAGAGCAGAGCGCTGAAAGATCCGCTGGCACACG	GTCTCACAACCA	2040	
Db	1981	GTTCACGGCAGCCTCAGAGCAGAGCGCTGAAAGATCCGCTGGCACACG	GTCTCACAACCA	2040	
Qy	2041	GGTGAGGTGAGGGTGGGTGTGCCAGGCGTGCCTCGTGTAGCCCCGG	CAGGGCGCAGC	2100	
Db	2041	GGTGAGGTGAGGGTGGGTGTGCCAGGCGTGTGCACAGGCGTGCCTCG	TAGCCCCGG	2100	
Qy	2101	CTGGGGTGGGGCGGTTCCAGTCTCCGTGGGATGCCAGCCGCGAGCAG	CGACACCC	2160	
Db	2101	CTGGGGTGGGGCGGTTCCAGTCTCCGTGGGATGCCAGCCGCGAGCAG	CGACACCC	2160	
Qy	2161	CAGGCTGTGCGCAGAAAGCCCGTGTCCCGTGTCTCGGCGAGTCCAG	GAGGGCGCAGGTG	2220	
Db	2161	CAGGCTGTGCGCAGAAAGCCCGTGTCCCGTGTCTCGGCGAGTCCAG	GAGGGCGCAGGTG	2220	
Qy	2221	CGCGGGTCAAGGGGTTCCACTCCTGTCTACGACTGTGTGACTCGCAG	GCGGGCAGC	2280	
Db	2221	CGCGGGTCAAGGGGTTCCACTCCTGTCTACGACTGTGTGACTCGCAG	GCGGGCAGC	2280	
Qy	2281	TACCGGCAAAACCCAGGTGAGCGCTTCCCGGCGAGCGGGGTGGAA	CGCAGCAGGGG	2340	
Db	2281	TACCGGCAAAACCCAGGTGAGCGCTTCCCGGCGAGCGGGGTGGAA	CGCAGCAGGGG	2340	
Qy	2341	AGGGTCTTGCAAGTCTGTACTGTAGACAGAGCCCAAGGGTACAGAC	GAAACCCCA	2400	
Db	2341	AGGGTCTTGCAAGTCTGTACTGTAGACAGAGCCCAAGGGTACAGAC	GAAACCCCA	2400	
Qy	2401	GCGCCCTTCTCCTCTCACAGACGACATCGCTGCACCTTTTGTGG	CCACAGGATGAGTG	2460	
Db	2401	GCGCCCTTCTCCTCTCACAGACGACATCGCTGCACCTTTTGTGG	CCACAGGATGAGTG	2460	
Qy	2461	TCCCGGAGCGAAAGCACACGCTCTTCCGCGCAGAGTCTCGGTTCT	TGGCATGGGGCAG	2520	
Db	2461	TCCCGGAGCGAAAGCACACGCTCTTCCGCGCAGAGTCTCGGTTCT	TGGCATGGGGCAG	2520	
Qy	2521	CCGGCTGTGTGTGTCTGTCTGTGTGAGCTGGCGCTGGGCTTGTGT	GTGGCTGCT	2580	
Db	2521	CCGGCTGTGTGTGTGTCTGTCTGTGTGAGCTGGCGCTGGGCTTGT	GTGGCTGCT	2580	
Qy	2581	TTGGGGCTGTTCTTCCATCCGGACAGCCACTGGTTCAGGCTCTGG	GGGGGGCCCTG	2640	
Db	2581	TTGGGGCTGTTCTTCCATCCGGACAGCCACTGGTTCAGGCTCTGG	GGGGGGGGCCCTG	2640	
Qy	2641	GCCTGCTTTGGCCTGTGTGCTGGGCTGGTCTGCTCAGCGCTCTCT	TGTTTCCCTGGC	2700	
Db	2641	GCCTGCTTTGGCCTGTGTGCTGGGCTGGTCTGCTCAGCGTCTCT	TGTTTCCCTGGC	2700	
Qy	2701	CAGCCACGCCCTGCCCGATGCTGGGCCAGACGCCCTTGTGCCACT	CCCGCTCACGGGC	2760	
Db	2701	CAGCCACGCCCTGCCCGATGCTGGGCCAGACGCCCTTGTGCCACT	CCCGCTCACGGGC	2760	
Qy	2761	TGCCTGAGCACACTTCTTCGTGAGGGCGGCGAGATCTTCGTGAG	TACAGAACTGCCTCTG	2820	
Db	2761	TGCCTGAGCACACTTCTTCGTGAGGGCGGCGAGATCTTCGTGAG	TACAGAACTGCCTCTG	2820	
Qy	2821	AGCTGGGCAGACCGGCTGAGTGGCTGCTCGGGGGGCCCTTGGG	CTGGCTGGTGGTGGCTG	2880	
Db	2821	AGCTGGGCAGACCGGCTGAGTGGCTGCTCGGGGGGCCCTTGGG	CTGGCTGGTGGTGGCTG	2880	
Qy	2881	CTGGCCATGTGTGTGGAGTGCACCTGTGACCTGTGTGTCCTTCC	CGCGTTCACGGGC	2940	
Db	2881	CTGGCCATGTGTGTGGAGTGCACCTGTGACCTGTGTGTCCTTCC	CGCGTTCACGGGC	2940	
Qy	2941	GTGGTGA	CGGACATGCTGCCACAGGAGCGCTGTGTGACATCTGCGC	CACACGCTCC	3000
Db	2941	GTGGTGA	CGGACATGCTGCCACAGGAGCGCTGTGTGACATCTGCGC	CACACGCTCC	3000
Qy	3001	TGGGTGAGCTTTCGGCCTTAGCGCAGCGCCACCAATGCCACGCT	TGGCCTTCTCTGCTTCCCTG	3060	

Db 961 GGAGCTGCTGAGCGCCCGGAGACCTTCCCTCCTTCTTCGCA CCGTGCACGACGG 1020
Qy 1021 TGTGAGCTGA CGGCGCCCGCGAGCTGTG CAGAGTTTGGCTGGA ACTGGGTGGCGC 1080
Db 1021 TGTGAGCTGA CGGCGCCCGCGAGCTGTG CAGAGTTTGGCTGGA ACTGGGTGGCGC 1080
Qy 1081 CCGTGGCAGCAGCAGTAGTACGGCCGCGAGGCGCTGAGCATCTTCTCGGCCCTGGCCG 1140
Db 1081 CCGTGGCAGCAGCAGTAGTACGGCCGCGAGGCGCTGAGCATCTTCTCGGCCCTGGCCG 1140
Qy 1141 GGCAGCGGCATCTGCATCGCAGCAGGGCGCTGGTGCCTGCGCTGCCCGTGCAGTACTC 1200
Db 1141 GGCAGCGGCATCTGCATCGCAGCAGGGCGCTGGTGCCTGCGCTGCCCGTGCAGTACTC 1200
Qy 1201 GCGGTGGGGAAGTGCAGGACGTCCTGCA C CAGGTGA ACCAGAGAGCGTGCAGGTGGT 1260
Db 1201 GCGGTGGGGAAGTGCAGGACGTCCTGCA C CAGGTGA ACCAGAGAGCGTGCAGGTGGT 1260
Qy 1261 GCTGTGTCGCTCGGTGCACGCGCCGCGCCCTCTTCAACTACAGCATCAGCAGCAG 1320
Db 1261 GCTGTGTCGCTCGGTGCACGCGCCGCGCCCTCTTCAACTACAGCATCAGCAGCAG 1320
Qy 1321 GCTCTGCCCAAGTGTGGTGGCCAGCGAGGCGCTGGCTGACCTCTGACCTGTCATGG 1380
Db 1321 GCTCTGCCCAAGTGTGGTGGCCAGCGAGGCGCTGGCTGACCTCTGACCTGTCATGG 1380
Qy 1381 GCTGCCCGCATGGCCAGATGGGCA C GGTGCTTGGCTTCTCCAGAGGGGTGCCAGCT 1440
Db 1381 GCTGCCCGCATGGCCAGATGGGCA C GGTGCTTGGCTTCTCCAGAGGGGTGCCAGCT 1440
Qy 1441 GCACAGTTCGCCAGTAGTGAAGACGACCTGCGCCCTGGGCCACGACCGGCCCTTCTG 1500
Db 1441 GCACAGTTCGCCAGTAGTGAAGACGACCTGCGCCCTGGGCCACGACCGGCCCTTCTG 1500
Qy 1501 CTCTGCCCTGGCGAGAGGAGCAGGCTCTGAGAGGACGCTGGTGGGCCAGCGCTGCC 1560
Db 1501 CTCTGCCCTGGCGAGAGGAGCAGGCTCTGAGAGGACGCTGGTGGGCCAGCGCTGCC 1560
Qy 1561 GCAGTGTGACTCATCAGCTCAGAA C GTGAGCGCAGGGCTAAATCACCACAGACGTT 1620
Db 1561 GCAGTGTGACTCATCAGCTCAGAA C GTGAGCGCAGGGCTAAATCACCACAGACGTT 1620
Qy 1621 CTCTGTCTACGAGCTGTATAGCGTGGCC CAGGCCCTGCAACA CACTCTTCACTGCA 1680
Db 1621 CTCTGTCTACGAGCTGTATAGCGTGGCC CAGGCCCTGCAACA CACTCTTCACTGCA 1680
Qy 1681 GGCCTCAGGCTGCCCGCAGGACCCGCTGAAGCCCTGGCAGGTGAGCCCGGAGATGG 1740
Db 1681 GGCCTCAGGCTGCCCGCAGGACCCGCTGAAGCCCTGGCAGGTGAGCCCGGAGATGG 1740
Qy 1741 GGGTGTGCTGCTCTCTGCATGTGCCAGGCC CACAGGCA CCGCCACCGCTGAGCTGG 1800
Db 1741 GGGTGTGCTGCTCTCTGCATGTGCCAGGCC CACAGGCA CCGCCACCGCTGAGCTGG 1800
Qy 1801 AGGTGGCTGGGCGCTCAGCCCGTCCCGCCGCGCAGCTCTCGGAGAACATGTACA CTT 1860
Db 1801 AGGTGGCTGGGCGCTCAGCCCGTCCCGCCGCGCAGCTCTCGGAGAACATGTACA CTT 1860
Qy 1861 GACCTTCCACGTGGGCGGCTGCGCTGGGTTT CAGACAGCAGCGAAACGTGGA CATTGA 1920
Db 1861 GACCTTCCACGTGGGCGGCTGCGCTGGGTTT CAGACAGCAGCGAAACGTGGA CATTGA 1920
Qy 1921 GTACGACCTGAAGCTGTGGTGTGGCAGGGCT CAGTGGCCAGGCTCCACGAGCTGGGCG 1980
Db 1921 GTACGACCTGAAGCTGTGGTGTGGCAGGGCT CAGTGGCCAGGCTCCACGAGCTGGGCG 1980
Qy 1981 GTTCAACGCGCAGCTCAGACAGAGGCGCTGAAGATCCGCTGGCACAGTCTGACA CCA 2040
Db 1981 GTTCAACGCGCAGCTCAGACAGAGGCGCTGAAGATCCGCTGGCACAGTCTGACA CCA 2040
Qy 2041 GGTGAGGTGAGGTGGTGTGCCAGGCGTCCCGTGTAGCCCGCGCAGGCGCAGC 2100
Db 2041 GGTGAGGTGAGGTGGTGTGCCAGGCGTTC CCGTGTAGCCCCCGCGCGCAGGCGCAGC 2100

Qy 2101 CTGGGGTGGGGCGGTTCCAGTCTCCCGTGGGCA TGCCAGCGCAGAGCCAGACCC 2160
Db 2101 CTGGGGTGGGGCGGTTCCAGTCTCCCGTGGGCA TGCCAGCGCAGAGCCAGACCC 2160
Qy 2161 CAGGCTGTGGCGCAGAAAGCCCGTGTCCCGGTGCTCGCGCAGTGCACAGAGGCGCAGGTG 2220
Db 2161 CAGGCTGTGGCGCAGAAAGCCCGTGTCCCGGTGCTCGCGCAGTGCACAGAGGCGCAGGTG 2220
Qy 2221 GCGGGGTCAAAGGGTTCCACTCTCTGTCTGCTACGACTGTGTGCA CTGCGAGCGGCGCAGC 2280
Db 2221 GCGGGGTCAAAGGGTTCCACTCTCTGTCTGCTACGACTGTGTGCA CTGCGAGCGGCGCAGC 2280
Qy 2281 TACCGGCAAAACCCAGGTGAGCGCGCTTCCCGG CAGGCGGGGTGGAA CCGCAGCAGGG 2340
Db 2281 TACCGGCAAAACCCAGGTGAGCGCGCTTCCCGG CAGGCGGGGTGGAA CCGCAGCAGGG 2340
Qy 2341 AGGGTCTCGCAAGTCTCTGACTCTGAGAC CAGAGCCCA CAGGGTACAAGA CCAACCCA 2400
Db 2341 AGGGTCTCGCAAGTCTCTGACTCTGAGAC CAGAGCCCA CAGGGTACAAGA CCAACCCA 2400
Qy 2401 GCGCCCTTCTCTCTCTCACAGACATCGCTG CACCTTTTGTGGCCAGATGAGTGG 2460
Db 2401 GCGCCCTTCTCTCTCTCACAGACATCGCTG CACCTTTTGTGGCCAGATGAGTGG 2460
Qy 2461 TCCCGGAGAGGACACAGCTGCTTCCGCGCAG GTCCTGGTTCCTGGCATGGGGCGAG 2520
Db 2461 TCCCGGAGAGGACACAGCTGCTTCCGCGCAG GTCCTGGTTCCTGGCATGGGGCGAG 2520
Qy 2521 CCGGCTGTGCTGCTGCTCTCTGCTGAGCC TGGCGCTTGGGCTTTGTGTGCTGCTGCT 2580
Db 2521 CCGGCTGTGCTGCTGCTCTCTGCTGAGCC TGGCGCTTGGGCTTTGTGTGCTGCTGCT 2580
Qy 2581 TTGGGGCTGTGTTTCAACATCGGAGACAGCC CACTGGTTCAAGGCTTCGCGGGGCGCCCTG 2640
Db 2581 TTGGGGCTGTGTTTCAACATCGGAGACAGCC CACTGGTTCAAGGCTTCGCGGGGCGCCCTG 2640
Qy 2641 GCCTGCTTGGCGCTGGTGTGCTGGGCTGTG CTTGCTCAGGTCCTCTCTGTTTCCCTGGC 2700
Db 2641 GCCTGCTTGGCGCTGGTGTGCTGGGCTGTG CTTGCTCAGGTCCTCTCTGTTTCCCTGGC 2700
Qy 2701 CAGCCAGCCCTGCCCGATGCTGGCC CAGCAGACCTTGTCCCACTCCCGCTCACGGGC 2760
Db 2701 CAGCCAGCCCTGCCCGATGCTGGCC CAGCAGACCTTGTCCCACTCCCGCTCACGGGC 2760
Qy 2761 TGCTTGAGCACACTCTTCTG CAGGCGCCGAGATCTTCTGAGTCAAGAACTGCTCTCTG 2820
Db 2761 TGCTTGAGCACACTCTTCTG CAGGCGCCGAGATCTTCTGAGTCAAGAACTGCTCTCTG 2820
Qy 2821 AGCTGGG CAGACCGGCTGAGTGGCTGCTG CCGGGGCCCTGGGCTTGGTGGTGGCTG 2880
Db 2821 AGCTGGG CAGACCGGCTGAGTGGCTGCTG CCGGGGCCCTGGGCTTGGTGGTGGCTG 2880
Qy 2881 CTGGCCATGTGTTGGAGGTGCAC TGTGCACTTGTACCTGTTGGCTTCCCGCGGAG 2940
Db 2881 CTGGCCATGTGTTGGAGGTGCAC TGTGCACTTGTACCTGTTGGCTTCCCGCGGAG 2940
Qy 2941 GTGTGACGAGACTGSCACATGCTGCC CACGAGGCGCTGGTGCACTGCGGCA CACGCTCC 3000
Db 2941 GTGTGACGAGACTGSCACATGCTGCC CACGAGGCGCTGGTGCACTGCGGCA CACGCTCC 3000
Qy 3001 TGGGTGAGCTTGGGCTAGCGCA CCGCACCAATGCA CCGTGGCTTCTCTGCTTCCCTG 3060
Db 3001 TGGGTGAGCTTGGGCTAGCGCA CCGCACCAATGCA CCGTGGCTTCTCTGCTTCCCTG 3060
Qy 3061 GGCATTTTCTGGTGGAGGCGCAG CCGGGCTGTCTA CAAACCGTGGCGCTTCCCTT 3120
Db 3061 GGCATTTTCTGGTGGAGGCGCAG CCGGGCTGTCTA CAAACCGTGGCGCTTCCCTT 3120
Qy 3121 GCCATGTGGCTACTTCACTCTG GGTCTCTTTTGTGCCCTCTCTGGCCAAATGTGCAG 3180
Db 3121 GCCATGTGGCTACTTCACTCTG GGTCTCTTTTGTGCCCTCTCTGGCCAAATGTGCAG 3180

QY 3181 GTGCTCCTCAGCCCGCGTGCAGATGSGCGCCCTCTCTCTGTGTCTCTGGGCACTCTG 3240
DB 3181 GTGGTCTCAGGCCCGCGTGCAGATGSGCGCCCTCTCTCTGTGTCTCTGGGCACTCTG 3240
QY 3241 GCTGCTTCCACCTGCGCCAGGTGTTACTGCTCATGCGGCAAGGCTCAACACCCCC 3300
DB 3241 GCTGCTTCCACCTGCGCCAGGTGTTACTGCTCATGCGGCAAGGCTCAACACCCCC 3300
QY 3301 GAGTTCTTCTGGAGGGGGCCCTGGGGATGCCCAAGGCGCAAGTACCGGGAACACAGGA 3360
DB 3301 GAGTTCTTCTGGAGGGGGCCCTGGGGATGCCCAAGGCGCAAGTACCGGGAACACAGGA 3360
QY 3361 AATCAGGGGAACATCAGTGACCCCAACCTCTGTATCTCAGCCCGGTGAAACCCAGACTTA 3420
DB 3361 AATCAGGGGAACATCAGTGACCCCAACCTCTGTATCTCAGCCCGGTGAAACCCAGACTTA 3420
QY 3421 GCTGCGATCCCCCCCCAAGCCAGCAATGACCCGCTGTCTCTACAGAGACCCCTCCGCTCT 3480
DB 3421 GCTGCGATCCCCCCCCAAGCCAGCAATGACCCGCTGTCTCTACAGAGACCCCTCCGCTCT 3480
QY 3481 AGTTCTGACCCAGGTTGTCTCTGACCCCTGACCCAGTGAAGCCCTAGGCTGGAGC 3540
DB 3481 AGTTCTGACCCAGGTTGTCTCTGACCCCTGACCCAGTGAAGCCCTAGGCTGGAGC 3540
QY 3541 ACGTGACACCCCTGTGACCATC 3563
DB 3541 ACGTGACACCCCTGTGACCATC 3563

RESULT 6

US-10-725-276-20
; Sequence 20, Application US/10725276
; Publication No. US20040209286A1
; GENERAL INFORMATION:
; APPLICANT: ADLER, JON ELLIOT
; APPLICANT: LI, XIAODONG
; APPLICANT: STASZEWSKI, LENA
; APPLICANT: O'CONNELL, SHAWN
; APPLICANT: ZOZULYA, SERGEY
; TITLE OF INVENTION: TIR TASTE RECEPTORS AND GENES ENCODING SAME
; FILE REFERENCE: 078003-0280681
; CURRENT APPLICATION NUMBER: US/10/725,276
; CURRENT FILING DATE: 2003-12-02
; PRIOR APPLICATION NUMBER: 60/259,227
; PRIOR FILING DATE: 2001-01-03
; PRIOR APPLICATION NUMBER: 60/284,547
; PRIOR FILING DATE: 2001-04-19
; NUMBER OF SEQ ID NOS: 24
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 20
; LENGTH: 3563
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-725-276-20

Query Match 100.0%; Score 3563; DB 8; Length 3563;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 3563; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 AGCTGGCAGTGGCTCAGGACAGTCTGACGGCGCACAACTTTTCAGGCCCGCAGGAAGCGA 60
DB 1 AGCTGGCAGTGGCTCAGGACAGTCTGACGGCGCACAACTTTTCAGGCCCGCAGGAAGCGA 60
QY 61 GGACACCACTGGGGCCCCAGGGTGTGGCAAGTGAAGTGGCAAGGGTTTTGCTAAACAAA 120
DB 61 GGACACCACTGGGGCCCCAGGGTGTGGCAAGTGAAGTGGCAAGGGTTTTGCTAAACAAA 120
QY 121 TCCTCTCCCGCTCCCGCCCGGGCTCACTCCATGTAGGCCCCCACTCGGGGAGCCAC 180
DB 121 TCCTCTCCCGCTCCCGCCCGGGCTCACTCCATGTAGGCCCCCACTCGGGGAGCCAC 180
QY 181 CTGCGGTGCTGTGGAGTTGCTCTGCGCATGCTGGGCTCTGCTCTGGGCTCAGC 240

DB 181 CTGCGGTGCTGTGGAGTTGCTCTGCGCATGCTGGGCTCTGCTCTGGGCTCAGC 240
QY 241 CTCTGGGCTCTCTCCTCAGCCCTGGGACGGGGGCCCAATTTGTGCTGTTCACAGCAACTTAG 300
DB 241 CTCTGGGCTCTCTCCTGCACTCTGGGACGGGGGCCCAATTTGTGCTGTTCACAGCAACTTAG 300
QY 301 ATGAAGGGGAGACTAGTGTGGGGGGGCTGTTCCCTCTGGGAGAGGCCGAGGAGGCTGGC 360
DB 301 ATGAAGGGGAGACTAGTGTGGGGGGGCTGTTCCCTCTGGGAGAGGCCGAGGAGGCTGGC 360
QY 361 CTCCGACGCCGACACGCGCCAGAGCCCTGTGTGTCACAGGTACAGAGGTGGGACGGCC 420
DB 361 CTCCGACGCCGACACGCGCCAGAGCCCTGTGTGTCACAGGTACAGAGGTGGGACGGCC 420
QY 421 TGGGTCGGGCTCAGGCTGACAGGCTCTGGGGTGTCTCTGAGTGGGGCCGAGGTGGCCAT 480
DB 421 TGGGTCGGGCTCAGGCTGACAGGCTCTGGGGTGTCTCTGAGTGGGGCCGAGGTGGCCAT 480
QY 481 CTGCGGTTCTGTGTGGGCCCAAGTCTCTCAAAAGGCTGTCTCTGGGCACTGGCCATGA 540
DB 481 CTGCGGTTCTGTGTGGGCCCAAGTCTCTCAAAAGGCTGTCTCTGGGCACTGGCCATGA 540
QY 541 AATGCGCGTGGAGGAGATCAACAAGTCCGATCTGCTGCCGGGCTGGGCTGGGCT 600
DB 541 AATGCGCGTGGAGGAGATCAACAAGTCCGATCTGCTGCCGGGCTGGGCTGGGCT 600
QY 601 ACGACCTCTTGTATGCTGCTCGAGCCTGTGTGGCCATGAAGCCAGCCTCATGTTC 660
DB 601 ACGACCTCTTGTATGCTGCTCGAGCCTGTGTGGCCATGAAGCCAGCCTCATGTTC 660
QY 661 TGGCCAAAGGACGCGACGCGCATGCGCGCTTCTGCAACTACAGCGAGTACAGCCCC 720
DB 661 TGGCCAAAGGACGCGACGCGCATGCGCGCTTCTGCAACTACAGCGAGTACAGCCCC 720
QY 721 GTGTGCTGCTGTCTCATGCGGCCCACTCTGTGAGGCTCGCCATGTGTCACGGCAAGTTCT 780
DB 721 GTGTGCTGCTGTCTCATGCGGCCCACTCTGTGAGGCTCGCCATGTGTCACGGCAAGTTCT 780
QY 781 TCAGCTTCTTCTCTCATGCGGCCCACTCTGTGAGGCTCGCCATGTGTCACGGCAAGTTCT 840
DB 781 TCAGCTTCTTCTCTCATGCGGCCCACTCTGTGAGGCTCGCCATGTGTCACGGCAAGTTCT 840
QY 841 CTGCCCCCGTGGGAGCCCTTGTGTGAGGAGATGTCTATGACACCCCGCCAGCCCTGTC 900
DB 841 CTGCCCCCGTGGGAGCCCTTGTGTGAGGAGATGTCTATGACACCCCGCCAGCCCTGTC 900
QY 901 CTGCGAGCCCTGTGTGAGGAGATGTCTTGTGGCTGTGAGGCTGAGGCTGAGGCTGAGCAT 960
DB 901 CTGCGAGCCCTGTGTGAGGAGATGTCTTGTGGCTGTGAGGCTGAGGCTGAGGCTGAGCAT 960
QY 961 GGAGCTGCTGAGCGCCCGGAGACCTTCCCTCTCTTCCGCACTGCGCCAGCAGCCG 1020
DB 961 GGAGCTGCTGAGCGCCCGGAGACCTTCCCTCTCTTCCGCACTGCGCCAGCAGCCG 1020
QY 1021 TGTGAGCTGACGGCCCGCGGAGTGTGTGAGGAGTTCGGCTGGAACTGGGTGGCCGC 1080
DB 1021 TGTGAGCTGACGGCCCGCGGAGTGTGTGAGGAGTTCGGCTGGAACTGGGTGGCCGC 1080
QY 1081 CTGCGGAGCCGACGAGTACGCGCGGAGGCTGTGAGCATCTTCTCGGCCCTGGCCGC 1140
DB 1081 CTGCGGAGCCGACGAGTACGCGCGGAGGCTGTGAGCATCTTCTCGGCCCTGGCCGC 1140
QY 1141 GGACCGCGGATCTGATCGCGACAGAGGCTGTGTGCGCTGCGCCGTCGCGATGATC 1200
DB 1141 GGACCGCGGATCTGATCGCGACAGAGGCTGTGTGCGCTGCGCCGTCGCGATGATC 1200
QY 1201 GCGGCTGGGGAAGGTGAGGACGCTCTGTGACAGGTGAAACAGAGAGCGGTGAGGTTGT 1260
DB 1201 GCGGCTGGGGAAGGTGAGGACGCTCTGTGACAGGTGAAACAGAGAGCGGTGAGGTTGT 1260
QY 1261 GCTGCTGTTGCGCTCTGAGTGAAGGCTGCGCCGCTCTTCAACTACAGCATCAGCAGCAG 1320
DB 1261 GCTGCTGTTGCGCTCTGAGTGAAGGCTGCGCCGCTCTTCAACTACAGCATCAGCAGCAG 1320

QY	1321	GCTCTGCCCAAGGTGTGGTGGCCAGCGAGGCTTGGCTGACCTCTGACCTGGTCAATGGG	1380	QY	2401	GGCCCTTCTCTCTCTCAACAGACATCGCTGACCTTTTGTGGCCAGGATGAGTGG	2460
DB	1321	GCTCTGCCCAAGGTGTGGTGGCCAGCGAGGCTTGGCTGACCTCTGACCTGGTCAATGGG	1380	DB	2401	GGCCCTTCTCTCTCTCAACAGACATCGCTGACCTTTTGTGGCCAGGATGAGTGG	2460
QY	1381	GCTGCCCGCATGGCCAGATGGGCAACGCTGTCTGGCTTCTCCAGAGGGGTGCCAGCT	1440	QY	2461	TCCCGGAGCGAAAGCACACGCTGCTTCGCGCGCAGGTCTCGGTTCCTTGGCATGGGCGAG	2520
DB	1381	GCTGCCCGCATGGCCAGATGGGCAACGCTGTCTGGCTTCTCCAGAGGGGTGCCAGCT	1440	DB	2461	TCCCGGAGCGAAAGCACACGCTGCTTCGCGCGCAGGTCTCGGTTCCTTGGCATGGGCGAG	2520
QY	1441	GACAGGTTTCCCCAGTACGTGAAGACGACCTGGCCCTTGGCCACCGACCCCGCCCTCTG	1500	QY	2521	CGGCTGTGTGTGTGTCTCTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT	2580
DB	1441	GACAGGTTTCCCCAGTACGTGAAGACGACCTGGCCCTTGGCCACCGACCCCGCCCTCTG	1500	DB	2521	CGGCTGTGTGTGTGTCTCTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT	2580
QY	1501	CTTGTGCTGGCGAGAGGAGACAGGCTGTGAGAGAGAGCTGTGTGTGTGTGTGTGTGTGT	1560	QY	2581	TTGGGGCTGTTCCTTACCATCGGACAGCCACTGTGTTCAGGGCTCGGGGGGGGGCCCTG	2640
DB	1501	CTTGTGCTGGCGAGGAGAGAGGCTGTGAGAGAGAGCTGTGTGTGTGTGTGTGTGTGT	1560	DB	2581	TTGGGGCTGTTCCTTACCATCGGACAGCCACTGTGTTCAGGGCTCGGGGGGGGGCCCTG	2640
QY	1561	GAGGTGTGACTCATCAGCTGCAGAACTGAGAGCGAGGGCTTAAATCACACACAGAGTT	1620	QY	2641	GCCTGCTTTGGCTGT	2700
DB	1561	GAGGTGTGACTCATCAGCTGCAGAACTGAGAGCGAGGGCTTAAATCACACACAGAGTT	1620	DB	2641	GCCTGCTTTGGCTGT	2700
QY	1621	CTTGTCTACGAGCTGTGTATAGCTGTGGCCAGGCTTGTGCAACACTCTTTCAGTGCAA	1680	QY	2701	CAGCCAGCCTTGGCCCGGATGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT	2760
DB	1621	CTTGTCTACGAGCTGTGTATAGCTGTGGCCAGGCTTGTGCAACACTCTTTCAGTGCAA	1680	DB	2701	CAGCCAGCCTTGGCCCGGATGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT	2760
QY	1681	CGCCTCAGGCTGCCCGCGCAGGACCCCGTGAAGCCTGTGGCAGGTGAGCCCGGGAGATGG	1740	QY	2761	TGCTTGACACACTCTTCTGAGGCGGCCAGAGATCTTCGTGGAGTCAGAACTGCTCTGT	2820
DB	1681	CGCCTCAGGCTGCCCGCGCAGGACCCCGTGAAGCCTGTGGCAGGTGAGCCCGGGAGATGG	1740	DB	2761	TGCTTGACACACTCTTCTGAGGCGGCCAGAGATCTTCGTGGAGTCAGAACTGCTCTGT	2820
QY	1741	GGGTGTGTGTCTCTGTGATGTGCCAGGCTTGGCCAGGCTTGTGCAACACTCTTTCAGTGCG	1800	QY	2821	AGCTGGGAGAGCCCGCTGAGTGGCTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT	2880
DB	1741	GGGTGTGTGTCTCTGTGATGTGCCAGGCTTGGCCAGGCTTGTGCAACACTCTTTCAGTGCG	1800	DB	2821	AGCTGGGAGAGCCCGCTGAGTGGCTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT	2880
QY	1801	AGGTGGCTGGCGGCTCAGCCCGTCCCGCCCGCAGCTTCTGTGAGAACTGTACAACCT	1860	QY	2881	CTGGGCACTGT	2940
DB	1801	AGGTGGCTGGCGGCTCAGCCCGTCCCGCCCGCAGCTTCTGTGAGAACTGTACAACCT	1860	DB	2881	CTGGGCACTGT	2940
QY	1861	GACCTTCAAGCTGTGGGTGTGGCAGGGCTCAGTGGCCAGGCTTCCAGAGCTGGGCGAG	1920	QY	2941	GTGTGTACGAGCTGACATGCTGCCACGAGAGGCTGTGTGTGTGTGTGTGTGTGTGTGT	3000
DB	1861	GACCTTCAAGCTGTGGGTGTGGCAGGGCTCAGTGGCCAGGCTTCCAGAGCTGGGCGAG	1920	DB	2941	GTGTGTACGAGCTGACATGCTGCCACGAGAGGCTGTGTGTGTGTGTGTGTGTGTGTGT	3000
QY	1921	GTTCACCGGAGCCTCAGGACAGAGCGCTGAAGATCCGCTGGCACAAGTCTTGAACAACA	2040	QY	3001	TGGGTACGCTTGGCTAGCGCACCAATGCAACGCTGTGTGTGTGTGTGTGTGTGTGTGT	3060
DB	1921	GTTCACCGGAGCCTCAGGACAGAGCGCTGAAGATCCGCTGGCACAAGTCTTGAACAACA	2040	DB	3001	TGGGTACGCTTGGCTAGCGCACCAATGCAACGCTGTGTGTGTGTGTGTGTGTGTGTGT	3060
QY	2041	GGTGAGGTGAGGGTGTGCGAGCGTGGCCGTGGTGTGTGTGTGTGTGTGTGTGTGTGTGT	2100	QY	3061	GGCCTTCTTGT	3120
DB	2041	GGTGAGGTGAGGGTGTGCGAGCGTGGCCGTGGTGTGTGTGTGTGTGTGTGTGTGTGTGT	2100	DB	3061	GGCCTTCTTGT	3120
QY	2101	CTGGGGGTGGGGGCTTCCAGTCTCCCGTGGGCATGCCAGCGAGAGAGCCAGAGCC	2160	QY	3121	GCCATGTGGCTACTTCACTACCTGGGTCTCTTTGTGGCCCTCTTGGCCAAATGTGCAG	3180
DB	2101	CTGGGGGTGGGGGCTTCCAGTCTCCCGTGGGCATGCCAGCGAGAGAGCCAGAGCC	2160	DB	3121	GCCATGTGGCTACTTCACTACCTGGGTCTCTTTGTGGCCCTCTTGGCCAAATGTGCAG	3180
QY	2161	CAGGCTGTGCGCAGAAAGCCGTGTCCCGGTGTCTCGCGCATGTGCCAGGAGGCGCAGGTG	2220	QY	3181	GTGTGTCTCAGGCGCGCGTGCAGATGGGCGCCCTCTCTGTGTGTGTGTGTGTGTGTGTGT	3240
DB	2161	CAGGCTGTGCGCAGAAAGCCGTGTCCCGGTGTCTCGCGCATGTGCCAGGAGGCGCAGGTG	2220	DB	3181	GTGTGTCTCAGGCGCGCGTGCAGATGGGCGCCCTCTCTGTGTGTGTGTGTGTGTGTGTGT	3240
QY	2221	CGCCGGGTCAAGGGGTTCACCTCTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT	2280	QY	3241	GCTGCTTCCACCTGCGGAGCGCGGCTGTACCTGTGTGTGTGTGTGTGTGTGTGTGTGTGT	3300
DB	2221	CGCCGGGTCAAGGGGTTCACCTCTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT	2280	DB	3241	GCTGCTTCCACCTGCGGAGCGCGGCTGTACCTGTGTGTGTGTGTGTGTGTGTGTGTGTGT	3300
QY	2281	TACCGGCAAAACCCAGGTGAGCGGCTTCCCGGAGCGGGGTGGGAAACGACAGAGGG	2340	QY	3301	GAGTTCCTTCTGGGAGGGGGCTTGGGATGCCCAGGCGCAGGATGACGGGAAACACAGGA	3360
DB	2281	TACCGGCAAAACCCAGGTGAGCGGCTTCCCGGAGCGGGGTGGGAAACGACAGAGGG	2340	DB	3301	GAGTTCCTTCTGGGAGGGGGCTTGGGATGCCCAGGCGCAGGATGACGGGAAACACAGGA	3360
QY	2341	AGGGTCTCTGCCAAGTCTTCACTCTGAGACAGAGCCACAGGGTCAAGAGCAACACCA	2400	QY	3361	AATCAGGGGAAACATGAGTGAGCCCAACCTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT	3420
DB	2341	AGGGTCTCTGCCAAGTCTTCACTCTGAGACAGAGCCACAGGGTCAAGAGCAACACCA	2400	DB	3361	AATCAGGGGAAACATGAGTGAGCCCAACCTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT	3420
QY	2401	AGGGTCTCTGCCAAGTCTTCACTCTGAGACAGAGCCACAGGGTCAAGAGCAACACCA	2460	QY	3421	GCTGCTTCCCGGAGCGGAGCAATGACCGGTGTCTCGCTACAGAGACCTTCCCGCTCT	3480
DB	2401	AGGGTCTCTGCCAAGTCTTCACTCTGAGACAGAGCCACAGGGTCAAGAGCAACACCA	2460	DB	3421	GCTGCTTCCCGGAGCGGAGCAATGACCGGTGTCTCGCTACAGAGACCTTCCCGCTCT	3480
QY	2461	AGGGTCTCTGCCAAGTCTTCACTCTGAGACAGAGCCACAGGGTCAAGAGCAACACCA	2520	QY	3481	AGGGTCTCTGCCAAGTCTTCACTCTGAGACAGAGCCACAGGGTCAAGAGCAACACCA	2580
DB	2461	AGGGTCTCTGCCAAGTCTTCACTCTGAGACAGAGCCACAGGGTCAAGAGCAACACCA	2520	DB	3481	AGGGTCTCTGCCAAGTCTTCACTCTGAGACAGAGCCACAGGGTCAAGAGCAACACCA	2580

Qy	1501	CTCTGCCCTTGGCGCAGAGGGAGCAGGGTCTTGAGAGGAA	CGTGGTGGGCGAGCGCTGCCCC	1560
Db	1501	CTCTGCCCTTGGGCGAGAGGGAGCAGGGTCTCGAGAGGAG	CGTGGTGGGCGCAGCGCTGCCCC	1560
Qy	1561	GCAGTGTACCTGCATC	ACGCTGCGAGAACGTCGAGCGCAGGGCTAAATCAACAC	1620
Db	1561	GCAGTGTACCTGCATC	ACGCTGCGAGAACGTCGAGCGCAGGGCTAAATCACCAC	1620
Qy	1621	CTCTGTCTTACGACGCTGTGTATACGCTTGCGCCAGGCCCCCTTGACAACTCTT	TCAGTGC	1680
Db	1621	CTCTGTCTTACGACGCTGTGTATACGCTTGCGCCAGGCCCCCTTGACAACTCTT	TCAGTGC	1680
Qy	1681	CGCTCTCAGGCTGCCCGCGCAGCA	CCCCGTGAGAGGCTTGGCAGGCGGAGATGG	1740
Db	1681	CGCTCTCAGGCTGCCCGCGCAGCA	CCCCGTGAGAGGCTTGGCAGGCGGAGATGG	1740
Qy	1741	GGGTGTGCTGCTCTCGATGTGCCAGGCCAC	CAGGCGCCAGGCTGAGCTGGCTGAGCTGG	1800
Db	1741	GGGTGTGCTGCTCTCGATGTGCCAGGCCAC	CAGGCGCCAGGCTGAGCTGGCTGAGCTGG	1800
Qy	1801	AGGTGGCTTGGCGGCTCAGCGCCGCTCCCGCCGCGCAGCTCTG	TGAGAACTGTACAACCT	1860
Db	1801	AGGTGGCTTGGCGGCTCAGCGCCGCTCCCGCCGCGCAGCTCTG	TGAGAACTGTACAACCT	1860
Qy	1861	GACCTTCCACGTGGCGGGCTGCCGCTTCGATCGACAGCGGAAAC	CTGAGACATGGA	1920
Db	1861	GACCTTCCACGTGGCGGGCTGCCGCTTCGATCGACAGCGGAAAC	CTGAGACATGGA	1920
Qy	1921	GTACGACCTGAACTGTGGTGTGGCAGGGCTCAGTGC	CCAGGCTCACAACGTGGCAG	1980
Db	1921	GTACGACCTGAACTGTGGTGTGGCAGGGCTCAGTGC	CCAGGCTCACAACGTGGCAG	1980
Qy	1981	GTTTCAACGGCAGCCTCAGGACAGAGCCCTGAAGATCCG	TGGCACAAGTGTACAACCA	2040
Db	1981	GTTTCAACGGCAGCCTCAGGACAGAGCCCTGAAGATCCG	TGGCACAAGTGTACAACCA	2040
Qy	2041	GGTGAGGTGAGGGTGGGTGTGCCAGGGGTGCCGCTGTAG	CCCCCGGAGGCGCAGC	2100
Db	2041	GGTGAGGTGAGGGTGGGTGTGCCAGGGGTGCCGCTGTAG	CCCCCGGAGGCGCAGC	2100
Qy	2101	CTGGGGGTGGGGCGGTTCAGTCTCCGCTGGGATGCC	ACCGAGCAGACCA	2160
Db	2101	CTGGGGGTGGGGCGGTTCAGTCTCCGCTGGGATGCC	ACCGAGCAGACCA	2160
Qy	2161	CAGGCTGTGCGCAGAACCCGCTGTCGGGTCTCGCGCAG	TGCCAGGAGGCGCAGGTG	2220
Db	2161	CAGGCTGTGCGCAGAACCCGCTGTCGGGTCTCGCGCAG	TGCCAGGAGGCGCAGGTG	2220
Qy	2221	CGCGGGTCAAGGGGTTCACCTCTCTGTCTGTACGACTGT	TGGA	2280
Db	2221	CGCGGGTCAAGGGGTTCACCTCTCTGTCTGTACGACTGT	TGGA	2280
Qy	2281	TACCGGCAAAACCCAGGTGAGCGCCCTTCCGCGCAGG	CGGGGTGGGAA	2340
Db	2281	TACCGGCAAAACCCAGGTGAGCGCCCTTCCGCGCAGG	CGGGGTGGGAA	2340
Qy	2341	AGGGTCTGCCAAGTCTCTGAGACAGAGCCACAGGGTAC	AGACACCA	2400
Db	2341	AGGGTCTGCCAAGTCTCTGAGACAGAGCCACAGGGTAC	AGACACCA	2400
Qy	2401	CGCGCTTCTCCTCTCTCACAGACGATCCGCTTGACCT	TTTTTGTGCCAGGATGAGTGG	2460
Db	2401	CGCGCTTCTCCTCTCTCACAGACGATCCGCTTGACCT	TTTTTGTGCCAGGATGAGTGG	2460
Qy	2461	TCCCGGAGCGAAGACACGCTGTTCCGCGCAGGCTCG	GTTC	2520
Db	2461	TCCCGGAGCGAAGACACGCTGTTCCGCGCAGGCTCG	GTTC	2520
Qy	2521	CCGGCTGTGCTGCTGCTCCTCTGCTGAGCTGGCGCT	TGGCCCTTGTCTGGCTGCT	2580
Db	2521	CCGGCTGTGCTGCTGCTCCTCTGCTGAGCTGGCGCT	TGGCCCTTGTCTGGCTGCT	2580
Qy	2581	TTGGGGTGTGTTTCAACATCGGACAGCCCACTGGTTC	AGGCGCTTCGGGGGGCGCCCTG	2640

Db	2581	TTGGGGCTGTTTGGTTTCAACATCGGGACAGCCCACTGGTTTCAAGCGCTCGGGGGGGCCCCCTG	2640
Qy	2641	GCCTGCTTTTGGCCCTGTGTGCTTGCCTGGGCGCTGGTCTGGCTCAGCGTCCTCTGTGTTCCCTGGC	2700
Db	2641	GCCTGCTTTTGGCCCTGTGTGCTTGCCTGGGCGCTGGTCTGGCTCAGCGTCCTCTGTGTTCCCTGGC	2700
Qy	2701	CAGCCAGCCCTGCCCGATGCTGTGGCCACGACGCGCTTGTGCCACCTCCCGCTCAGCGGC	2760
Db	2701	CAGCCAGCCCTGCCCGATGCTGTGGCCACGACGCGCTTGTGCCACCTCCCGCTCAGCGGC	2760
Qy	2761	TGCTGTAGCACACTCTTCTTCGACGGCGCCGAGATCTTTCGTGGAGTCAGAACTGCCTCTG	2820
Db	2761	TGCTGTAGCACACTCTTCTTCGACGGCGCCGAGATCTTTCGTGGAGTCAGAACTGCCTCTG	2820
Qy	2821	AGCTGGGGAGACCGGCTAGTGGCTGTCTGGGGGGCCCTGGGCGCTGGCTGGTGGTGGCTG	2880
Db	2821	AGCTGGGGAGACCGGCTAGTGGCTGTCTGGGGGGCCCTGGGCGCTGGCTGGTGGTGGCTG	2880
Qy	2881	CTGGCCATGCTGTGGAGGTCGCACTGTGCACCTGTGTACCTGTGTGGGCTTCCCGCCGGAG	2940
Db	2881	CTGGCCATGCTGTGGAGGTCGCACTGTGCACCTGTGTACCTGTGTGGGCTTCCCGCCGGAG	2940
Qy	2941	GTGTTGACGGACTGSCACATGCTGCCACAGGAGCGCTGTGTGCACTGCCGCAACACGCTCC	3000
Db	2941	GTGTTGACGGACTGSCACATGCTGCCACAGGAGCGCTGTGTGCACTGCCGCAACACGCTCC	3000
Qy	3001	TGGGTGAGCTTTCGGCCTTAGCGCAGCGCCACCAATGCCACGCTGGGCTTCTCTGCTTCCCTG	3060
Db	3001	TGGGTGAGCTTTCGGCCTTAGCGCAGCGCCACCAATGCCACGCTGGGCTTCTCTGCTTCCCTG	3060
Qy	3061	GGCACTTTTCTGTGTGGGAGCCAGCCGGGCTGTGTACAAACGCTGCCGTGGGCTCACCCTTT	3120
Db	3061	GGCACTTTTCTGTGTGGGAGCCAGCCGGGCTGTGTACAAACGCTGCCGTGGGCTCACCCTTT	3120
Qy	3121	GCCATGTGCGCTACTTTCATCACTGCGGTCTCCTTTGTGCGCTCTCTGGGCAATGTGCAG	3180
Db	3121	GCCATGTGCGCTACTTTCATCACTGCGGTCTCCTTTGTGCGCTCTCTGGGCAATGTGCAG	3180
Qy	3181	GTGTCCTCAGGCGCGCGCTGCAGATGGGCGCCCTCTGTCTGTGTCTCTGGGCACTCCTG	3240
Db	3181	GTGTCCTCAGGCGCGCGCTGCAGATGGGCGCCCTCTGTCTGTGTCTCTGGGCACTCCTG	3240
Qy	3241	GCTGCCCTTCCACTGCCAGGTFTTACTGTCTATGCGGAGCGAGGGCTCAACACCCCC	3300
Db	3241	GCTGCCCTTCCACTGCCAGGTFTTACTGTCTATGCGGAGCGAGGGCTCAACACCCCC	3300
Qy	3301	GAGTTCTTCTGGAGGGGGCCCTGGGGATGCCCAAGGCCAGATGACGGGAACACAGGA	3360
Db	3301	GAGTTCTTCTGGAGGGGGCCCTGGGGATGCCCAAGGCCAGATGACGGGAACACAGGA	3360
Qy	3361	AATCAGGGGAAACATGAGTGACCCAAACCTCTGTATCTTCAGCCCCGGGTGAACCCAGACTTA	3420
Db	3361	AATCAGGGGAAACATGAGTGACCCAAACCTCTGTATCTTCAGCCCCGGGTGAACCCAGACTTA	3420
Qy	3421	GCTGCGATCCCCCACAAGCCAGCAATGACCCGTGTCTTCGCTACAGAGACCTTCCCGCTCT	3480
Db	3421	GCTGCGATCCCCCACAAGCCAGCAATGACCCGTGTCTTCGCTACAGAGACCTTCCCGCTCT	3480
Qy	3481	AGGTTCTTGACCCCAAGTTGTCTCTCTGACCTTGACCCCAAGTGTAGGCGCTTGAGGC	3540
Db	3481	AGGTTCTTGACCCCAAGTTGTCTCTCTGACCTTGACCCCAAGTGTAGGCGCTTGAGGC	3540
Qy	3541	ACGTGGACACCCCTGTGACCAATC	3563
Db	3541	ACGTGGACACCCCTGTGACCAATC	3563

RESULT 8
US-10-725-284-20
; Sequence 20, Application US/10725284
; Publication No. US20050032158A1
; GENERAL INFORMATION:

APPLICANT: ADLER, JON ELLIOT
APPLICANT: LI, XIAODONG
APPLICANT: STASZEWSKI, LENA
APPLICANT: O'CONNELL, SHAWN
APPLICANT: ZOZULYA, SERGEY
TITLE OF INVENTION: TIR TASTE RECEPTORS AND GENES ENCODING SAME
FILE REFERENCE: 078003-0280681
CURRENT APPLICATION NUMBER: US/10/725,284
PRIORITY FILING DATE: 2003-12-02
PRIORITY FILING DATE: 2001-01-03
PRIORITY FILING DATE: 2001-04-19
NUMBER OF SEQ ID NOS: 24
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 20
LENGTH: 3563
TYPE: DNA
ORGANISM: Homo sapiens
US-10-725-284-20

Query Match 100.0%; Score 3563; DB 8; Length 3563;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 3563; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AGCTGGCAGTGGCTCAGGACAGTCTGACGGGCAACAACTTTCAGGCCCAGGAGCGA 60
DB 1 AGCTGGCAGTGGCTCAGGACAGTCTGACGGGCAACAACTTTCAGGCCCAGGAGCGA 60
QY 61 GGACACCACTGGGGCCCCAGGGTGTGCAAGTGGAGTGGCAAGGGTTTGTCTAAACAAA 120
DB 61 GGACACCACTGGGGCCCCAGGGTGTGCAAGTGGAGTGGCAAGGGTTTGTCTAAACAAA 120
QY 121 TCTCTGCGCGCTCCCGCCCGGGCTCACTCAATGTGAGGCCCCAGTGGGGGAGCCAC 180
DB 121 TCTCTGCGCGCTCCCGCCCGGGCTCACTCAATGTGAGGCCCCAGTGGGGGAGCCAC 180
QY 181 CTGCGGTGCTTGAAGTGTCTGTCATGCTGGGCGCTGCTGCTGCTGGGCGCTCAGC 240
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QY 361 CTCGGAGCCGACAGCCCGCCAGCCCTGTGTGTCACCAAGTACAGAGTGGGAGCCG 420
DB 361 CTCGGAGCCGACAGCCCGCCAGCCCTGTGTGTCACCAAGTACAGAGTGGGAGCCG 420
QY 421 TGGGTGGGGTCAAGGTGACAGTGTGGGGTGTCTCTGAGCTGGGGCCAGGTGGCCAT 480
DB 421 TGGGTGGGGTCAAGGTGACAGTGTGGGGTGTCTCTGAGCTGGGGCCAGGTGGCCAT 480
QY 481 CTGCGGTTCGTGTGGGGCCAGGTTCCTCTCAAAAGCCCTGTCTGGGCACTGGCCATGA 540
DB 481 CTGCGGTTCGTGTGGGGCCAGGTTCCTCTCAAAAGCCCTGTCTGGGCACTGGCCATGA 540
QY 541 AAATGGCCGTGGAGGAGATCAACAAAGTGGATCTGTGTCGCGGGCTGGGCTGGGCT 600
DB 541 AAATGGCCGTGGAGGAGATCAACAAAGTGGATCTGTGTCGCGGGCTGGGCTGGGCT 600
QY 601 ACCAGCTCTTGTATGATCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 660
DB 601 ACCAGCTCTTGTATGATCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 660
QY 661 TGGCCAAAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 720
DB 661 TGGCCAAAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 720

QY 721 GTGTGCTGGCTGTCTATCGGGGCCCCACTCGTCAGAGCTGGCATGTGTACCGGCAAGTTCT 780
DB 721 GTGTGCTGGCTGTCTATCGGGGCCCCACTCGTCAGAGCTGGCATGTGTACCGGCAAGTTCT 780
QY 781 TCAGTTCTTCTCTATGCCCCAGTGGGGGCCCCACCATCACCACCCCAACCAACC 840
DB 781 TCAGTTCTTCTCTATGCCCCAGTGGGGGCCCCACCATCACCACCCCAACCAACC 840
QY 841 CCTGCCCCGTGGAGCCCCCTTGTGTGAGGAGAAATCTATCATGCCACCCCAAGCCCTGC 900
DB 841 CCTGCCCCGTGGAGCCCCCTTGTGTGAGGAGAAATCTATCATGCCACCCCAAGCCCTGC 900
QY 901 CCTGGAGCCCTGTGTGAGAGATGCTTGTGGCCCTTGCAGGTACGTACGTGCTAGCAT 960
DB 901 CCTGGAGCCCTGTGTGAGAGATGCTTGTGGCCCTTGCAGGTACGTACGTGCTAGCAT 960
QY 961 GGAGCTGTGAGGCGCGGGAGACCTTCCCTCTCTTCCGACCCGCTGCCAGGACCG 1020
DB 961 GGAGCTGTGAGGCGCGGGAGACCTTCCCTCTCTTCCGACCCGCTGCCAGGACCG 1020
QY 1021 TGTGAGCTGTGAGGCGCGGGAGCTGTGTGAGGAGTTCGGCTTGGAACTGGGTGGCCGC 1080
DB 1021 TGTGAGCTGTGAGGCGCGGGAGCTGTGTGAGGAGTTCGGCTTGGAACTGGGTGGCCGC 1080
QY 1081 CCTGGGACGACGACGAGTACGGCGGCGAGGCTGTGAGCATCTTCTCGGCCCTGGCCGC 1140
DB 1081 CCTGGGACGACGACGAGTACGGCGGCGAGGCTGTGAGCATCTTCTCGGCCCTGGCCGC 1140
QY 1141 GGCACGGGCTGTGATCGCCACGAGGGCTGTGCGCTGCGCTGCGCTGCGCTGCGCTGCG 1200
DB 1141 GGCACGGGCTGTGATCGCCACGAGGGCTGTGCGCTGCGCTGCGCTGCGCTGCGCTGCG 1200
QY 1201 GCGGCTGGGAAAGTGTGAGGAGCTCTGTGACAGGCTGAAACAGAGGAGTGGTGGT 1260
DB 1201 GCGGCTGGGAAAGTGTGAGGAGCTCTGTGACAGGCTGAAACAGAGGAGTGGTGGT 1260
QY 1261 GCTGTGTTGGCTCCGTGTCACCGCGCCCAAGCTTCTTAACTACAGATCAGAGCAG 1320
DB 1261 GCTGTGTTGGCTCCGTGTCACCGCGCCCAAGCTTCTTAACTACAGATCAGAGCAG 1320
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DB 1321 GCTCTGCCCCAAGTGTGGGTGGCCAGCGAGGCTGGCTGAGCTGACCTGATGATGG 1380
QY 1381 GCTGCCCCGATGAGGCGGCTGAGTGGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1440
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DB 1501 CTCTGCCCCGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 1560
QY 1561 GCAGTGTGATGCTCATCACTGAGAACTGTGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 1620
DB 1561 GCAGTGTGATGCTCATCACTGAGAACTGTGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 1620
QY 1621 CTCTGTCTACGAGCTGTGTATAGCGTGGCCAGGCTTGCACAACTCTTCACTGAGTGA 1680
DB 1621 CTCTGTCTACGAGCTGTGTATAGCGTGGCCAGGCTTGCACAACTCTTCACTGAGTGA 1680
QY 1681 CGCTCAGGCTGCCCCGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 1740
DB 1681 CGCTCAGGCTGCCCCGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 1740
QY 1741 GGTGTGCTGCTCTCTGATGTGTCAGTGTGTCAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 1800
DB 1741 GGTGTGCTGCTCTCTGATGTGTCAGTGTGTCAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 1800
QY 1801 AGGTGCTGGCGGCTCAGGCCCTCCCGCCCGGCTGCTGAGGAGGAGGAGGAGGAGGAGGAG 1860

Matches 3489; Conservative 0; Mismatches 22; Indels 52; Gaps 2;			
QY	1	AGCTGGGAGTGGCTCAGGAGAGTCTGACGGGACAAACTTTTCAGGCCCAGGAGCGA	60
Db	1908	AGCTGGGAGTGGCTCAGGAGAGTCTGACGGGACAAACTTTTCAGGCCCAGGAGCGA	1967
QY	61	GGACACCACTGGGGCCCCAGGGTGTGGCAAGTGAGGATGGCAAGGGTTTGTCTAAACAAA	120
Db	1968	GGACACCACTGGGGCCCCAGGGTGTGGCAAGTGAGGATGGCAAGGGTTTGTCTAAACAAA	2027
QY	121	TCCTCTGCCCGCTCCCGCCCGGGCTCACTCAATGTAGGGCCCAAGTCGGGGAGCCAC	180
Db	2028	TCCTCTGCCCGCTCCCGCCCGGGCTCACTCAATGTAGGGCCCAAGTCGGGGAGCCAC	2087
QY	181	CTGCCGTGCTGTGGAAGTGGCTCTGCGCATGCTGGGGCCCTGCTGCTGGGGCTCAGC	240
Db	2088	CTGCCGTGCTGTGGAAGTGGCTCTGCGCATGCTGGGGCCCTGCTGCTGGGGCTCAGC	2147
QY	241	CTCTGGGCTCTCTGACACCTGGGAGCGGGGCCCAATTGTGCTGTACAGCAACTTAGG	300
Db	2148	CTCTGGGCTCTCTGACACCTGGGAGCGGGGCCCAATTGTGCTGTACAGCAACTTAGG	2207
QY	301	ATGAAGGGGAGCTACGTGCTGGGGGGCTGTTCCTCCCTGGCGAGGCCGAGAGGCTGGC	360
Db	2208	ATGAAGGGGAGCTACGTGCTGGGGGGCTGTTCCTCCCTGGCGAGGCCGAGAGGCTGGC	2267
QY	361	CTCCGAGCGGAGACAGGCCAGCAGCCTGTGTGACCAAGGTACAGAGTGGGAGCGCC	420
Db	2268	CTCCGAGCGGAGACAGGCCAGCAGCCTGTGTGACCAAGGTACAGAGTGGGAGCGCC	2327
QY	421	TGGGTGGGGTCAAGGTGACCAAGTCTGGGGTCTCTGAGCTGGGGCCAGGTGGCCAT	480
Db	2328	TGGGTGGGGTCAAGGTGACCAAGTCTGGGGTCTCTGAGCTGGGGCCAGGTGGCCAT	2387
QY	481	CTCGGCTTCTGTGGCCCCAGGTTCTCTCAAGCGCCCTGCTCTGGGCACTGGCCATGA	540
Db	2388	CTCGGCTTCTGTGGCCCCAGGTTCTCTCAAGCGCCCTGCTCTGGGCACTGGCCATGA	2447
QY	541	AAATGGCGTGGAGGAGATCAACAAAGTCGGATCTGCTGGCCCTGCTCTGGGCTGGGCT	600
Db	2448	AAATGGCGTGGAGGAGATCAACAAAGTCGGATCTGCTGGCCCTGCTCTGGGCTGGGCT	2507
QY	601	ACGACCTCTTTGATAGTGTCTGGAGCCTGTGTGGCCATGAAGCCAGCCTCATGTTC	660
Db	2508	ACGACCTCTTTGATAGTGTCTGGAGCCTGTGTGGCCATGAAGCCAGCCTCATGTTC	2567
QY	661	TGGCCAAAGGAGGAGCCGAGCATCGCCGCTACTGCAACTACAGCAATACCAAGCC	720
Db	2568	TGGCCAAAGGAGGAGCCGAGCATCGCCGCTACTGCAACTACAGCAATACCAAGCC	2627
QY	721	GTGTGCTGGTGTATCGGGCCCACTGTGTGAGCTGGCCATGGTCAACGGCAAGTTCT	780
Db	2628	GTGTGCTGGTGTATCGGGCCCACTGTGTGAGCTGGCCATGGTCAACGGCAAGTTCT	2687
QY	781	TCAGCTCTTCTCATGCGCCAGTGGGGCCGCCCAACCATACCCACCCCAACCAACC	840
Db	2688	TCAGCTCTTCTCATGCGCCAGTGGGGCCGCCCAACCATACCCACCCCAACCAACC	2747
QY	841	CCTGCCCGTGGAGCCCTTGTGTACAGGAGATGTCTACATGCAACCCCAACCCAGCCCTGC	900
Db	2748	CTGCCCGTGGAG---CCCTGTGTACAGGATGCCCT-----	2781
QY	901	CCTGGGAGCCCTGTGTACAGGATGTCTTTGGCCCTTCAGGTGACGTACGGTGTAGCAT	960
Db	2782	-----CTTGGCCCTTCAGGTACGGTGTAGCAT	2815
QY	961	GGAGCTCTCAGCGCCGGAGACCTTCCCTCTCTCCGACAGCTGCCAGCGACCG	1020
Db	2816	GGAGCTCTCAGCGCCGGAGACCTTCCCTCTCTCCGACAGCTGCCAGCGACCG	2875
QY	1021	TGTGACCTCAGCGCCCGGAGCTGTGTGAGGAGTTCGGTGGAACTGGGTGGCCGC	1080
Db	2876	TGTGACCTCAGCGCCCGGAGCTGTGTGAGGAGTTCGGTGGAACTGGGTGGCCGC	2935

QY	1081	CCTGGGAGCGACGACGAGTACGGCCGGCAGGGCCTGAGACATCTTTCTGGCCCTTGCCCGC	1140
Db	2936	CCTGGGAGCGACGACGAGTACGGCCGGCAGGGCCTGAGACATCTTTCTGGCCCTTGCCCGC	2995
QY	1141	GGCAGCGGGCATCTGCATCGGCCACGAGGGCTGTGCGGTGCGGTCGCCGTCGCGATGACTC	1200
Db	2996	GGCAGCGGGCATCTGCATCGGCCACGAGGGCTGTGCGGTGCGGTCGCCGTCGCGATGACTC	3055
QY	1201	GGGGCTGGGGAAGTGCAGGACGTCTGCACAGGTGAACACAGAGCAGCGTCGAGGTGT	1260
Db	3056	GGGGCTGGGGAAGTGCAGGACGTCTGCACAGGTGAACACAGAGCAGCGTCGAGGTGT	3115
QY	1261	GCTGTGTTTGGCTCCGCTGCACCGCCCAACCCCTCTTTCAAATACAGCATCAGCAGCAG	1320
Db	3116	GCTGTGTTTGGCTCCGCTGCACCGCCCAACCCCTCTTTCAAATACAGCATCAGCAGCAG	3175
QY	1321	GCTCTGCCCAAGGTGTGGTGGCCAGCAGGAGCCTGGCTGACCTCTGACCTGGTCATGGG	1380
Db	3176	GCTCTGCCCAAGGTGTGGTGGCCAGCAGGAGCCTGGCTGACCTCTGACCTGGTCATGGG	3235
QY	1381	GCTGCCCGCATGGCCAGATGGGCAACGCTGTGGCTTCTTCCAGAGGGGTGCCAGCT	1440
Db	3236	GCTGCCCGCATGGCCAGATGGGCAACGCTGTGGCTTCTTCCAGAGGGGTGCCAGCT	3295
QY	1441	GCAAGAGTTTCCCCAGTACGTGAAGACGCACTTGGCCCTTGGCCACCGACCCGGCTTCTG	1500
Db	3296	GCAAGAGTTTCCCCAGTACGTGAAGACGCACTTGGCCCTTGGCCACCGACCCGGCTTCTG	3355
QY	1501	CTTCTGCTGGGCGAGAGGAGTCTGAGAGGAGCGTGTGGGCGAGGCTGCC	1560
Db	3356	CTTCTGCTGGGCGAGAGGAGTCTGAGAGGAGCGTGTGGGCGAGGCTGCC	3415
QY	1561	GCAGTGTGACTCATCAGCTGCAGAACTGAGCGCAGGGCTAAATCAACACAGACGTT	1620
Db	3416	GCAGTGTGACTCATCAGCTGCAGAACTGAGCGCAGGGCTAAATCAACACAGACGTT	3475
QY	1621	CTCTGTCTACGAGCTGTGTATAGCTGGCCCGCAGGCTTGCACAACTTTTCAGTGC	1680
Db	3476	CTCTGTCTACGAGCTGTGTATAGCTGGCCCGCAGGCTTGCACAACTTTTCAGTGC	3535
QY	1681	CGCTCAGGCTGCCCGCGCAGGACCCCGTGAAGCCCTGGCAGGTGAGCCCGGAGTGG	1740
Db	3536	CGCTCAGGCTGCCCGCGCAGGACCCCGTGAAGCCCTGGCAGGTGAGCCCGGAGTGG	3595
QY	1741	GGGTGTGCTGTCTCTGCAATGTGCCCCAGGCGCACAGGCGCACAGCCCTGAGCTGG	1800
Db	3596	GGGTGTGCTGTCTCTGCAATGTGCCCCAGGCGCACAGGCGCACAGCCCTGAGCTGG	3655
QY	1801	AGTGTGCTGGCGCTCAGGCCCGCTCCCGCCCGCAGCTCTGAGAGAACATGTACAACT	1860
Db	3656	AGTGTGCTGGCGCTCAGGCCCGCTCCCGCCCGCAGCTCTGAGAGAACATGTACAACT	3715
QY	1861	GACCTTTCCAGTGGGGCGGCTGCGCTGCGGTTTGCAGCAGCGGAAACGTGACATGGA	1920
Db	3716	GACCTTTCCAGTGGGGCGGCTGCGCTGCGGTTTGCAGCAGCGGAAACGTGACATGGA	3775
QY	1921	GTACGACCTGAACTGTGGGTGGCAGGCTCAGTGGCCCGCAGGCTCCACGACGTGGGCG	1980
Db	3776	GTACGACCTGAACTGTGGGTGGCAGGCTCAGTGGCCCGCAGGCTCCACGACGTGGGCG	3835
QY	1981	GTTCACCGGAGCCTCAGGACAGGCGCTTGAAGATCCGCTGGGCACACGCTGTGACAA	2040
Db	3836	GTTCACCGGAGCCTCAGGACAGGCGCTTGAAGATCCGCTGGGCACACGCTGTGACAA	3895
QY	2041	GGTGAAGTGAAGGTGGTGTGCGAGGCTGCCCGGTAGCTCCCGCGGCGAGGCGGCG	2100
Db	3896	GGTGAAGTGAAGGTGGTGTGCGAGGCTGCCCGGTAGCTCCCGCGGCGAGGCGGCG	3955
QY	2101	CTGGGGTGGGGCGCTTCCAGTCTCCGTTGGGCGATGCCCGGCGGAGCAGGCGGAGCC	2160
Db	3956	CTGGGGTGGGGCGCTTCCAGTCTCCGTTGGGCGATGCCCGGCGGAGCAGGCGGAGCC	4015

; NAME/KEY: CDS		; LOCATION: (3979)..(4056)		; US-10-292-798-601		
Query Match		95.4%; Score 3398.6; DB 6; Length 4256;				
Best Local Similarity		98.0%; Pred. No. 0;				
Matches 3482; Conservative		0; Mismatches 19; Indels 52; Gaps 2;				
QY	11	TGGCTCAGGAGAGTCTGACGGCGCACAACTTTTACGGCCCAAGGAGGAGGACCACT	70	DB	909	AGGCGCCGGGAGACCTTCCCTCTCTTCCGACCGTGCACGACCGTGTGACGCTG
DB	1	TGGCTCAGGAGAGTCTGACGGCGCACAACTTTTACGGCCCAAGGAGGAGGACCACT	60	QY	1031	ACGGCCCGCGGAGCTGCTGCAGAGTTCGGCTGGAACCTGGTGGCCCGCCCTTGGGCGAGC
QY	71	GGGGCCCCCAGGCTGGCAAGTGAAGTGAAGGTTTTTGTAAACAAATCTCTTGC	130	DB	969	ACGGCCCGCGGAGAGTGTGCAGAGTTCGGCTGGAACCTGGTGGCCCGCCCTTGGGCGAGC
DB	61	GGGGCCCCCAGGCTGGCAAGTGAAGTGAAGGTTTTTGTAAACAAATCTCTTGC	120	QY	1091	GACGACGAGTACGCGCGGCGAGGCGCTGAGCATTTCTTCGGCCCTTGGCCGCGGACGCGGC
QY	131	GCTCCCGCCCGGCTCACTCCATGTGAGGCCCAAGTGGGGGAGCGACCACTTCCGCTGCC	190	DB	1029	GACGACGAGTACGCGCGGCGAGGCGCTGAGCATTTCTTCGGCCCTTGGCCGCGGACGCGGC
DB	121	GCTCCCGCCCGGCTCACTCCATGTGAGGCCCAAGTGGGGGAGCGACCACTTCCGCTGCC	180	QY	1151	ATCTGATCCGCAAGAGGCTGGTGGCTGCGCTGCGCTGCGATGACCTCGCGCTGGGG
QY	191	TGTTGAAATGTCCTGTCATGCTGGGGCTGTGTCTTGGGCTCAGCCTCTGGGCTC	250	DB	1089	ATCTGATCCGCAAGAGGCTGGTGGCTGCGCTGCGCTGCGATGACCTCGCGCTGGGG
DB	181	TGTTGAAATGTCCTGTCATGCTGGGGCTGTGTCTTGGGCTCAGCCTCTGGGCTC	240	QY	1211	AAAGTGCAGAGCTCTCTGCACAGGTGAACACAGAGCAGCGTGCAGGTGGTGTCTGTCTTC
QY	251	TCCTGCACCTGGGAGCGGGGCCCAATGTCCTGTGCACAGCAACTTAGGATGAAGGGG	310	DB	1149	AAAGTGCAGAGCTCTCTGCACAGGTGAACACAGAGCAGCGTGCAGGTGGTGTCTGTCTTC
DB	241	TCCTGCACCTGGGAGCGGGGCCCAATGTCCTGTGCACAGCAACTTAGGATGAAGGGG	300	QY	1271	GCCTCCGTCACGCGCCCAAGCGCTTTCAACTACAGATCAGCAGAGGCTCTCGCCC
QY	311	ACTACGTGCTGGGGGGCTGTTCCCTCTGGGCGAGGCGAGAGGCTTGGCTCCGCGAGCC	370	DB	1209	GCCTCCGTCACGCGCCCAAGCGCTTTCAACTACAGATCAGCAGAGGCTCTCGCCC
DB	301	ACTACGTGCTGGGGGGCTGTTCCCTCTGGGCGAGGCGAGAGGCTTGGCTCCGCGAGCC	360	QY	1331	AAAGTGTGGGTGGCCAGCGAGGCTGGCTGACCTCTGACCTTGTGCTGGGCTGCGCCGCG
QY	371	GGACACGGCCAGCAGCCCTGTGTGCACACAGGTACAGAGTGGGAGCGGCTTGGGTGGGG	430	DB	1391	ATGGCCCAATGGGACGCGTGTGGCTTCTCCAGAGGGGTGCCAGCTGACAGAGTTC
DB	361	GGACACGGCCAGCAGCCCTGTGTGCACACAGGTACAGAGTGGGAGCGGCTTGGGTGGGG	420	QY	1451	CCCCAGTACGTGAAGACGACCTTGGCCCTGGCCACCGACCGCCCTTCTCTGCGCCCTG
QY	431	TCAGGTGACAGCTCTGGGGTGTCTCTGAGCTGGGGCGAGGTGGCCATCTCGGTTCT	490	DB	1389	CCCCAGTACGTGAAGACGACCTTGGCCCTGGCCACCGACCGCCCTTCTCTGCGCCCTG
DB	421	TCAGGTGACAGCTCTGGGGTGTCTCTGAGCTGGGGCGAGGTGGCCATCTCGGTTCT	480	QY	1511	GGCAGAGGAGCAGGGTCTCGAGAGGAGACCTGTGTGGGCGGCTGCCCGCAGTGTGAC
QY	491	GTGTGGCCCGAGGTTCTCTCAACGGCTGTCTTGGGCACTGGCCATGAATAATGGCCGT	550	DB	1449	GGCAGAGGAGCAGGGTCTCGAGAGGAGACCTGTGTGGGCGGCTGCCCGCAGTGTGAC
DB	481	GTGTGGCCCGAGGTTCTCTCAACGGCTGTCTTGGGCACTGGCCATGAATAATGGCCGT	540	QY	1571	TGCATCAGCTGCAGAACTGTGAGCGCAGGGCTTAATCACCACAGAGAGTCTCTGTCTAC
QY	551	GGAGGAGATCAACAAAGTTCGATCTGCTGCCCGGGCTGGCCCTGGGCTTACGACCTTT	610	DB	1509	TGCATCAGCTGCAGAACTGTGAGCGCAGGGCTTAATCACCACAGAGAGTCTCTGTCTAC
DB	541	GGAGGAGATCAACAAAGTTCGATCTGCTGCCCGGGCTGGCCCTGGGCTTACGACCTTT	600	QY	1631	GCACTGTGTATAGAGCTGGCCAGGCGCTGCAACAACCTTTCAGTGCACACGCTCAGGC
QY	611	TGATACGTGCTGGAGGCTGTGGTGGCCATGAAGCCAGCTCATGTTCTTCCGCAAGGC	670	DB	1569	GCACTGTGTATAGAGCTGGCCAGGCGCTGCAACAACCTTTCAGTGCACACGCTCAGGC
DB	601	TGATACGTGCTGGAGGCTGTGGTGGCCATGAAGCCAGCTCATGTTTCTTGGGCAAGGC	660	QY	1691	TGCCCCGCGCAGGACCCCGTGAAGCCCTGGCAGGTGAGCCCGGAGATGGGGGTGTCTG
QY	671	AGGAGCGCGACATCGCCGCTACTGCAACTACACGAGTACAGCCCGCTGTGTGCTGGC	730	DB	1629	TGCCCCGCGCAGGACCCCGTGAAGCCCTGGCAGGTGAGCCCGGAGATGGGGGTGTCTG
DB	661	AGGAGCGCGACATCGCCGCTACTGCAACTACACGAGTACAGCCCGCTGTGTGCTGGC	720	QY	1751	TCCTCTGCATGTGCCAGGCGCACAGGCGCCACCGCTGAGCTGGAGGTGGCTGG
QY	731	TGTATCGGGCCCCACTCGTTCAGAGCTTCGCCATGTTTCAACGCAAGTTTCTTACGCTTT	790	DB	1689	TCCTCTGCATGTGCCAGGCGCACAGGCGCCACCGCTGAGCTGGAGGTGGCTGG
DB	721	TGTATCGGGCCCCACTCGTTCAGAGCTTCGCCATGTTTCAACGCAAGTTTCTTACGCTTT	780	QY	1811	CGGCTCAGCCCGCTTCCCGCCCGCAGCTCCTTGAGAAACATGTACACCTTCCAC
QY	791	CCTCATGCCAGTGGGGGCCCCCAGCATCACACCCACCCACCAACCCCTGCCCGCT	850	DB	1749	CGGCTCAGCCCGCTTCCCGCCCGCAGCTCCTTGAGAAACATGTACACCTTCCAC
DB	781	CCTCATGCCAGTGGGGGCCCCCAGCATCACACCCACCCACCAACCCCTGCCCGCTG	840	QY	1871	GTGGGCGGGCTGCCCGCTGCGGTTTCGACAGCAGCGGAAACGTTGGAATGACGACTG
QY	851	GGGAGCCCCCTTGTCTAGGAGATGTCTATGCACCCACCCAGCCCTTGGGAGCC	910	DB	1809	GTGGGCGGGCTGCCCGCTGCGGTTTCGACAGCAGCGGAAACGTTGGAATGACGACTG
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DB	865	-----CTTGGCCCTTGCAGGTACAGTACAGTGTGAGTGGAGTGTG	908	QY	1991	AGCTCAGGACAGAGCGCTGAAGATCCGCTGGCACAACGCTGTGACAAACAGGTGAGTGA
QY	971	AGCGCCCGGAGACCTTCCCTCTCTTTCGGAACCGTGGCCAGCGACCGTGTGACGCTG	1030	DB	1929	AGCTCAGGACAGAGCGCTGAAGATCCGCTGGCACAACGCTGTGACAAACAGGTGAGTGA

Db 1989 GGGTGGGTGTGACAGCGGTGCCGTGTGATGACCCCGCGCAGGGCGCAGCCTGGGGGTGG 2048
QY 2111 GGGCGGTTCAGTCTCTCCGTGGGCATGCCCCAGCGAGCAGACCCAGGCGTGTG 2170
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RESULT 11

US-10-017-161-689
; Sequence 689, Application US/10017161
; Publication No. US20030143668A1
; GENERAL INFORMATION:
; APPLICANT: SUWA, MAKIKO
; APPLICANT: AKIYAMA, YUTAKA
; APPLICANT: ABURATANI, HIROYUKI
; TITLE OF INVENTION: NOVEL G PROTEIN-COUPLED RECEPTORS
; FILE REFERENCE: 084335/0152
; CURRENT APPLICATION NUMBER: US/10/017,161
; CURRENT FILING DATE: 2002-12-18
; PRIOR APPLICATION NUMBER: JP 2001/246789
; PRIOR FILING DATE: 2001-06-18
; NUMBER OF SEQ ID NOS: 2430
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 689
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; ORGANISM: Homo sapiens
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; NAME/KEY: CDS
; LOCATION: (6476)..(6884)
; US-10-017-161-689

Query Match          94.1%; Score 3354.2; DB 6; Length 7084;
Best Local Similarity 97.8%; Pred. No. 0;
Matches 3484; Conservative 0; Mismatches 23; Indels 56; Gaps 6;

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RESULT 14

US-10-679-102-13

; Sequence 13, Application US/10679102

; Publication No. US20050106571A1

; GENERAL INFORMATION:

; APPLICANT: Erlendbach, Isolde

; APPLICANT: Ryba, Nicholas J. P.

; APPLICANT: Zhao, Grace

; APPLICANT: Zuker, Charles S.

; APPLICANT: The Regents of the University of California

; APPLICANT: as represented by The Secretary of the

; APPLICANT: Department of Health and Human Services

; TITLE OF INVENTION: Mammalian T1R3 Sweet Taste Receptors

; FILE REFERENCE: 02307E-140800US

; CURRENT APPLICATION NUMBER: US/10/679,102

; NUMBER OF SEQ ID NOS: 32

; SOFTWARE: PatentIn Ver. 2.1

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; SEQ ID NO 13
; LENGTH: 3200
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; ORGANISM: Homo sapiens
; FEATURE:
; OTHER INFORMATION: human T1R3 G-protein coupled receptor sweet taste
; OTHER INFORMATION: receptor genomic sequence
US-10-679-102-13
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Query Match 86.7%; Score 3088.2; DB 9; Length 3200;
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Matches 3182; Conservative 0; Mismatches 18; Indels 53; Gaps 3;

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OM nucleic - nucleic search, using sw model

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES			
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2	1897	53.2	2559 6 US-10-725-475-9 Sequence 9, Appl
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4	1895.4	53.2	2559 11 US-11-050-804-5 Sequence 5, Appl
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6	1293	36.3	3240 7 US-10-645-441-16 Sequence 16, Appl
7	1291	36.2	3200 7 US-10-645-441-21 Sequence 21, Appl
8	835.6	23.5	2577 6 US-10-725-475-11 Sequence 11, Appl
9	835.6	23.5	2577 7 US-10-645-441-24 Sequence 24, Appl
10	814.6	22.9	2577 7 US-10-645-441-22 Sequence 22, Appl
11	813.8	22.8	2577 7 US-10-645-441-17 Sequence 17, Appl
12	809	22.7	2577 7 US-10-645-441-19 Sequence 19, Appl
13	147	4.1	2526 6 US-10-725-475-8 Sequence 8, Appl
14	147	4.1	2526 11 US-11-050-804-1 Sequence 1, Appl
15	143.8	4.0	2333 7 US-10-645-441-6 Sequence 6, Appl
16	129.4	3.6	2771 7 US-10-645-441-4 Sequence 4, Appl
17	124.2	3.5	2579 7 US-10-645-441-5 Sequence 5, Appl
18	109.2	3.1	2993 7 US-10-645-441-10 Sequence 10, Appl
19	109	3.1	2010 7 US-10-645-441-12 Sequence 12, Appl
20	108.8	3.1	2532 7 US-10-645-441-11 Sequence 11, Appl
21	101.8	2.9	2520 11 US-11-050-804-3 Sequence 3, Appl

2228	Db		GACATCGCTGCACCTTTTGTGTGGCCAGGATGAGTGTGTCCCGAGCGAAAGCACACGCTGC	2287
2485	Qy	TTCCGCGCGCAGGTCCTCGGTTCTGTGGCATGTGGGGCGAGCCGGCTGTGTCTGTCTGTCTCTG	2544	
2288	Db	TTCCGCGCGCAGGTCCTCGGTTCTGTGGCATGTGGGGCGAGCCGGCTGTGTCTGTCTGTCTCTG	2347	
2545	Qy	CTGTCTGAGCGCTGGCGCTGGGCGCTTGTGTCTGTGGCTCTTGTGGGCTGTTCGTTCAACATCGG	2604	
2348	Db	CTGTCTGAGCGCTGGCGCTGGGCGCTTGTGTCTGTGGCTCTTGTGGGCTGTTCGTTCAACATCGG	2407	
2605	Qy	GACAGCCCATGTGTTTCAGGCTCTCGGGGGGCCCTCGGCTCTGTCTTGGCTGTGGTGTGCCCTG	2664	
2408	Db	GACAGCCCATGTGTTTCAGGCTCTCGGGGGGCCCTCGGCTCTGTCTTGGCTGTGGTGTGCCCTG	2467	
2665	Qy	GGCTGTGTCTGACGCTCTAGCGTCTCTCTGTTCCTTGGCCAGGCCCTGAGCCCTGCCCGATGCCCTG	2724	
2468	Db	GGCTGTGTCTGACGCTCTAGCGTCTCTCTGTTCCTTGGCCAGGCCCTGAGCCCTGCCCGATGCCCTG	2527	
2725	Qy	GCCACGAGCCCTTGTCCACACTCCGCTCACGGGCTGCTGAGCAGCACCTCTTCTCTGCGAG	2784	
2528	Db	GCCACGAGCCCTTGTCCACACTCCGCTCACGGGCTGCTGAGCAGCACCTCTTCTCTGCGAG	2587	
2785	Qy	GCGGCCGAGATCTTCGTGGAGTCAGAACTGCCCTCTGAGCTTGGCGAGACCGGCTGAGTGCC	2844	
2588	Db	GCGGCCGAGATCTTCGTGGAGTCAGAACTGCCCTCTGAGCTTGGCGAGACCGGCTGAGTGCC	2647	
2845	Qy	TGCTCTGGGGGGCCCTGGGCGCTGGCTGTGGTGGTCTCTGTGCCATGTGTGGAGGTCGCA	2904	
2648	Db	TGCTCTGGGGGGCCCTGGGCGCTGGCTGTGGTGGTCTCTGTGCCATGTGTGGAGGTCGCA	2707	
2905	Qy	CTGTGCACTGTGTACCTGTGTGGGCTTCTCCCGCCGGAGTGTGTGACGGACTTGGCACAATGTCTG	2964	
2708	Db	CTGTGCACTGTGTACCTGTGTGGGCTTCTCCCGCCGGAGTGTGTGACGGACTTGGCACAATGTCTG	2767	
2965	Qy	CCACGGAGCGCTGTGTGCACTGTCGGCAGACGCTCTGTGGGTGAGCTTGGGCTAGCGCAC	3024	
2768	Db	CCACGGAGCGCTGTGTGCACTGTCGGCAGACGCTCTGTGGGTGAGCTTGGGCTAGCGCAC	2827	
3025	Qy	GCACCAATGCCACGCTGTGGCTTCTCTGCTTCTCTGGGCACTTTCCTGGTGTGGAGCCAG	3084	
2828	Db	GCACCAATGCCACGCTGTGGCTTCTCTGCTTCTCTGGGCACTTTCCTGGTGTGGAGCCAG	2887	
3085	Qy	CCGGGCTGTACAAACCGTGTCCGCTGCGGCTCACTTTTGCCATGTGTGGCTTACTTCAACACC	3144	
2888	Db	CCGGGCTGTACAAACCGTGTCCGCTGCGGCTCACTTTTGCCATGTGTGGCTTACTTCAACACC	2947	
3145	Qy	TGGGTCTCTTGTGTGCCCTCTGGCCAAATGTGCAAGTGTCTCAGGCCCGCCGCTGCGAG	3204	
2948	Db	TGGGTCTCTTGTGTGCCCTCTGGCCAAATGTGCAAGTGTGTCTCAGGCCCGCCGCTGCGAG	3007	
3205	Qy	ATGGGGCCCTCTCTGTCTGTGTCTGGGCACTCTGTGCTGCCCTTCCACCTGCCACGAGTGT	3264	
3008	Db	ATGGGGCCCTCTCTGTCTGTGTCTGGGCACTCTGTGCTGCCCTTCCACCTGCCACGAGTGT	3067	
3265	Qy	TACTGTCTAATGGGCGACGCAAGGCTCAACACCCCGAGTCTTCTCTGGAGGGGGCCCT	3324	
3068	Db	TACTGTCTAATGGGCGACGCAAGGCTCAACACCCCGAGTCTTCTCTGGAGGGGGCCCT	3127	
3325	Qy	GGGGATGCCCAAGGCCAGAATGACGGGAAACACAGGAAATCAGGGGAAACATGAGTGAACCC	3384	
3128	Db	GGGGATGCCCAAGGCCAGAATGACGGGAAACACAGGAAATCAGGGGAAACATGAGTGAACCC	3187	
3385	Qy	AAACCTGTGATCT	3397	
3188	Db	AAACCTGTGATCT	3200	

RESULT 2
US-10-725-475-9
; Sequence 9, Application US/10725475
; Publication No. US2006014208A1
; GENERAL INFORMATION:

Db 380 ||||| CCTACTGCAACTACACGAGTACCAAGCCCCGTTGCTGCTGTCAATCGGGCCCCACTCGT 439
Qy 751 CAGAGCTCGCCATGGTTCACCGCAAGTTCCTTACAGTTCCTCATGATGCCACAGTGGGGCG 810
Db 440 CAGAGCTCGCCATGGTTCACCGCAAGTTCCTTACAGTTCCTCATGCCC----- 489
Qy 811 CCCCCCACCATCACCACACCCCCAACCAACCCCTGCCCCCGTGGAGAGCCCCCTTGTGCAGGA 870
Db 490 ----- 489
Qy 871 GAATGCTACATGACACCCACCCAGCCCTGCCCTGGGAGCCCTGTGTGACAGAGATGCTCTT 930
Db 490 ----- 489
Qy 931 GGCCTTTGCAAGGTACAGTACGGTGTAGCATGGAGTGTGTAGCGCCCGGAGACCTTCCC 990
Db 490 -----CAGGTACAGTACGGTGTAGCATGGAGTGTGTAGCGCCCGGAGACCTTCCC 542
Qy 991 CTCTCTTTCGGAACCGTGCACAGGACCGTGTGACAGCTGACGGCCGCCCGGAGGTGCT 1050
Db 543 CTCTCTTTCGGAACCGTGCACAGGACCGTGTGACAGCTGACGGCCGCCCGGAGGTGCT 602
Qy 1051 CAGAGAGTTCGGCTGGAACTGGGTGGCCGCTTGGGACGACGACGAGTACGGCGGCA 1110
Db 603 CGAGAGTTCGGCTGGAACTGGGTGGCCGCTTGGGACGACGACGAGTACGGCGGCA 662
Qy 1111 GGGCCTGAGCATCTTCTCGGCCCTTGGCCCGCGGACACGCGGCATCTGATCGCGCACAGAGG 1170
Db 663 GGGCCTGAGCATCTTCTCGGCCCTTGGCCCGCGGACACGCGGCATCTGATCGCGCACAGAGG 722
Qy 1171 CTTGTGCGCCTGCCCCGCTGCCATGACTCGCGGCTGGGGAAAGGTGCAGGAAGTCTCTGCA 1230
Db 723 CTTGTGCGCCTGCCCCGCTGCCATGACTCGCGGCTGGGGAAAGGTGCAGGAAGTCTCTGCA 782
Qy 1231 CCAGGTGAACAGACAGACGCTGCAGTGGTGTGCTGTTGCGCTCGTGCACGCGGCCCA 1290
Db 783 CCAGGTGAACAGACAGACGCTGCAGTGGTGTGCTGTTGCGCTCGTGCACGCGGCCCA 842
Qy 1291 CGCCCTCTTCAACTACAGCATCAGACAGAGGCTCTCGCCCAAGGTGTGGGTGGCCAGCGA 1350
Db 843 CGCCCTCTTCAACTACAGCATCAGACAGAGGCTCTCGCCCAAGGTGTGGGTGGCCAGCGA 902
Qy 1351 GGCCTGGCTGACCTCTGACCTTGTATGGGGTGTGCCCGCATGGCCAGATGGGACAGGT 1410
Db 903 GGCCTGGCTGACCTCTGACCTTGTATGGGGTGTGCCCGCATGGCCAGATGGGACAGGT 962
Qy 1411 GCTTGGCTTCTCCAGAGGGTGCACAGTGCACAGATTCCCCAGTACGTGACGTGAAGACGCA 1470
Db 963 GCTTGGCTTCTCCAGAGGGTGCACAGTGCACAGATTCCCCAGTACGTGAAAGACGCA 1022
Qy 1471 CTTGGCCCTTGGCCACCGACCCGCTCTTGTGCTGTGCCCTGGGCGAGAGGAGCAGGGTCT 1530
Db 1023 CTTGGCCCTTGGCCACCGACCCGCTCTTGTGCTGTGCCCTGGGCGAGAGGAGCAGGGTCT 1082
Qy 1531 GGAGGAGGACGTGGTGGGCCAGCGTGCCTCGAGTGTGATGCAATCAGCTGCAGAACGT 1590
Db 1083 GGAGGAGGACGTGGTGGGCCAGCGTGCCTCGCAGTGTGACTGCATCACGCTGCAGAACGT 1142
Qy 1591 GAGCGCAGGGCTAAATACACACAGACGTTCTGTCTACGACGCTGTATAGCGTGC 1650
Db 1143 GAGCGCAGGGCTAAATACACACAGACGTTCTGTCTACGACGCTGTATAGCGTGC 1202
Qy 1651 CAGGCGCTTGCAACAACACTCTTACGTGCAACGCTCAGGCTGCCCGCAGGACCCCGT 1710
Db 1203 CAGGCGCTTGCAACAACACTCTTACGTGCAACGCTCAGGCTGCCCGCAGGACCCCGT 1262
Qy 1711 GAAGCCCTGGCAGGTGAGCCCCGGGAGATGGGGGTGTGTCTCTGTGATGTGCCAGGC 1770
Db 1263 GAAGCCCTG----- 1271
Qy 1771 CACAGGACAGGCCACACCGCTGAGCTGGAGGTGGCTGGCGGCTCAGCCCCCGTCCCCCG 1830

Db 1272 ----- 1271
Qy 1831 CCCGAGCTCTCTGGAGAACATGTACAACCTGACCTTCCAGTGGGCGGGCTCCCGCTGGG 1890
Db 1272 ---GCAGCTCTCTGGAGAACATGTACAACCTGACCTTCCACGTGGGCGGGCTCCCGCTGGG 1328
Qy 1891 GTTTCACACAGCAGCGAAGCGTGGACATGGAGTACCACTTGAAGCTGTGGTGTGTCAGAGG 1950
Db 1329 GTTTCACACAGCAGCGAAGCGTGGACATGGAGTACCACTTGAAGCTGTGGTGTGTCAGAGG 1388
Qy 1951 CTTACGTGCCAGGCTTCCACGAGTGGGAGGTTTAAACGCGAGCTCAGGACAGAGCGCT 2010
Db 1389 CTTACGTGCCAGGCTTCCACGAGTGGGAGGTTTAAACGCGAGCTCAGGACAGAGCGCT 1448
Qy 2011 GAAGATCCGCTGGGACACGCTCTGACAAACAGGTGAGGTGAGGGTGGGTGTGCCAGGCGTG 2070
Db 1449 GAAGATCCGCTGGGACACGCTCTGACAAAC----- 1476
Qy 2071 CCCGTTAGCCCCCGCGGACGGGCGAGCTGGGGGTGGGGCGCTTCCAGTCTCCCGT 2130
Db 1477 ----- 1476
Qy 2131 GGGCATGCCAGCCAGCAGCAGAGCCAGACCCAGAGGCTGTGCGCAGAAAGCCCGTGTCCCG 2190
Db 1477 -----CAGAAGCCCGTGTCCCGG 1494
Qy 2191 TGCTCGCGCAGTGTCCAGAGGGCCAGGTGCGCCGGGTCAAGGGGTTCACCTCTGCTGC 2250
Db 1495 TGCTCGCGCAGTGTCCAGAGGGCCAGGTGCGCCGGGTCAAGGGGTTCACCTCTGCTGC 1554
Qy 2251 TACGACTGTGTGACTGCGAGCGGGCAGCTACCCGGCAAAACCCAGGTGAGCGCGCTTCC 2310
Db 1555 TACGACTGTGTGACTGCGAGCGGGCAGCTACCCGGCAAAAC----- 1597
Qy 2311 CGGCAGGGGGGGTGGGAAACGACAGCAGGGGAGGGTCTCTGCCAAGTCTGACTCTGAGACC 2370
Db 1598 ----- 1597
Qy 2371 AGAGCCACAGGGTACAAGACGAACACCCAGGGCCCTTCTCTCTCTCAGACAGACATC 2430
Db 1598 -----CAGACGACATC 1608
Qy 2431 GCCTGACCTTTTGTGGCCAGGATGAGTGTCCCGAGCGAAGACACAGCTGTTTCCCG 2490
Db 1609 GCCTGACCTTTTGTGGCCAGGATGAGTGTCCCGAGCGAAGACACAGCTGTTTCCCG 1668
Qy 2491 CGCAGGTCTCGGTCTCTGECATGGGGCGAGCCGGTGTGCTGCTGCTCTCTGCTGTG 2550
Db 1669 CGCAGGTCTCGGTCTCTGECATGGGGCGAGCCGGTGTGCTGCTGCTCTCTGCTGTG 1728
Qy 2551 AGCCTGGCGCTGGGCTTGTGCTGCTTGTGGGCTGTGCTTCAACATCGGACAGC 2610
Db 1729 AGCCTGGCGCTGGGCTTGTGCTGCTTGTGGGCTGTGCTTCAACATCGGACAGC 1788
Qy 2611 CCACCTGTTTACGGCTCGGGGGGCCCTGGCTGCTTGTGGCTGCTGCTGCTGGGCTG 2670
Db 1789 CCACCTGTTTACGGCTCGGGGGGGGCCCTGGCTGCTTGTGGCTGCTGCTGCTGGGCTG 1848
Qy 2671 GTCTGCTCAGCGCTCTCTGCTTCCCTGGCCAGACCCAGCCCTGCCGATGCTGGGCCAG 2730
Db 1849 GTCTGCTCAGCGCTCTCTGCTTCCCTGGCCAGACCCAGCCCTGCCGATGCTGGGCCAG 1908
Qy 2731 CAGCCCTGTGCCACCTCCCGCTCACGGCTGCTGAGACACACTCTTCTGACAGGCGGCC 2790
Db 1909 CAGCCCTGTGCCACCTCCCGCTCACGGCTGCTGAGACACACTCTTCTGACAGGCGGCC 1968
Qy 2791 GAGATCTTGTGGAGTCAAGACTGCTGAGCTGGGACAGCCGGTGAAGTGGCTGCTG 2850
Db 1969 GAGATCTTGTGGAGTCAAGACTGCTGAGCTGGGACAGCCGGTGAAGTGGCTGCTG 2028
Qy 2851 CGGGGGCCCTGGGCTGGCTGGTGTGCTGGCCATGCTGGTGGAGGTGCACTGTGC 2910
Db 2029 CGGGGGCCCTGGGCTGGCTGGTGTGCTGGCCATGCTGGTGGAGGTGCACTGTGC 2088

Qy	1351	GGCCTGGCTGACCTCTGACCTGTGTCATGCGGGCTGCCCGGCATGCCCCAGATGGGCACGGT	1410
Db	903		
Qy	1411	GCTTTGGTTCCTCCAGAGGGGTGCCAGCTGACAGATTCCCCAGTACCTGAAGACGCA	1470
Db	963	GCTTTGGTTCCTCCAGAGGGGTGCCAGCTGACAGATTCCCCAGTACCTGAAGACGCA	1022
Qy	1471	CCTGGCCCTGGCCACCGACCCGGGCTTCTGCTCTGCCCTGGGCGAGAGGGAGCAGGGTCT	1530
Db	1023		
Qy	1531	GGAGGAGACGTGTGTGGGGCCAGCCCTGCCCGCAGTGTGATGTGCATCACGCTGCAGAACGT	1590
Db	1083	GGAGGAGACGTGTGTGGGGCCAGCCCTGCCCGCAGTGTGATGTGCATCACGCTGCAGAACGT	1142
Qy	1591	GAGCGCAGGGCTAAATCACCAACAGCGTTCTCTGTCTAAGCAGCTGTGTATAGCTGGC	1650
Db	1143	GAGCGCAGGGCTAAATCACCAACAGCGTTCTCTGTCTAAGCAGCTGTGTATAGCTGGC	1202
Qy	1651	CCAGGCCCTGCACAACTCTTTCAGTGCACGCTCAGGCTGCCCGCGCAGACCCCGT	1710
Db	1203		
Qy	1711	GAAGCCCTTGGCAGGTGAGCCCGGAGATGGGGGTGTCTGTCTCTGCATGTGCCCGAGC	1770
Db	1263	GAAGCCCTGT	1271
Qy	1771	CACACAGCACGGCCACACCGCCTGAGCTGGAGGTGGCTGGCGGCTCAGCCCCGTCCTCCCG	1830
Db	1272	----	1271
Qy	1831	CCCGCAGCTCTGTGAGAACATGTAAACCTGACCTTCCACGTGGCGGGGTGCCGCTGCG	1890
Db	1272	---GCAGCTCCTTGGAGAACATGTAAACCTGACCTTCCACGTGGCGGGGTGCCGCTGCG	1328
Qy	1891	GTTTCGACAGCAGCGGAAACGTGGACATGGAGTACGACCTGAAGCTGTGGGTGTGGCAGGG	1950
Db	1329	GTTTCGACAGCAGCGGAAACGTGGACATGGAGTACGACCTGAAGCTGTGGGTGTGGCAGGG	1388
Qy	1951	CTCAGTGCCAGGCTCCACGACGTGGGCAGGTTCAACGGCAGCTCTAGGACAGACGCCT	2010
Db	1389	CTCAGTGCCAGGCTCCACGACGTGGGCAGGTTCAACGGCAGCTCTAGGACAGACGCCT	1448
Qy	2011	GAAGATCCGCTGGCACACGCTCTGACAAACACAGGTGAGGTGAGGGTGGGTGTGCCAGGCGTG	2070
Db	1449	GAAGATCCGCTGGCACACGCTCTGACAAACACAGGTGAGGTGAGGGTGGGTGTGCCAGGCGTG	1476
Qy	2071	CCCGTGTGTAGCCCCCGCGGCAGGCGCGAGCCTTGGGGGTGGGGGCGGTTCAGTCTCCCGT	2130
Db	1477	----	1476
Qy	2131	GGGCATGCCCCAGCAGCAGCAGCAGACCCCGCCTGTGGCAGAGACCGGTGTCCCGG	2190
Db	1477	-----CAGAGGCCGTGTCCCGG	1494
Qy	2191	TGCTCGGGCAGTGCCAGGAGGGCCAGGTGCGCGGGTCAAGGGGTTCCACTCCTGTCTGC	2250
Db	1495	TGCTCGGGCAGTGCCAGGAGGGCCAGGTGCGCGGGTCAAGGGGTTCCACTCCTGTCTGC	1554
Qy	2251	TACGACTGTGTGGACTGTGGAGCGGGGAGCTACCGGCAGAAACCCAGTGTAGCGCCTTCC	2310
Db	1555	TACGACTGTGTGGACTGTGGAGCGGGGAGCTACCGGCAGAAACCCAGTGTAGCGCCTTCC	1597
Qy	2311	CGGCAGCGGGGTGGGAAACGACAGCAGGAGGGGTCTCTGCCAAGTCTGTGACTCTGAGACC	2370
Db	1598	-----	1597
Qy	2371	AGACCCACAGGGTACAAGACGAAACCCAGCGCCCTTCTCTCTCTCAAGACGACATC	2430
Db	1598	-----CAGACGACATC	1608

Qy	2431	GCTGCAACCTTTTGTGGCCAGAGATGATGTGTCCTCCGAGCGAAGACACACGCTGCTTCCGC	2490
Db	1609	GCCTGACACCTTTTGTGGCCAGAGATGATGTGTCCTCCGAGCGAAGACACACGCTGCTTCCGC	1668
Qy	2491	CGCAGGTCTCGGTTCTTGGCATGGGGCGAGCGCGCTGCTGCTGTGCTGTCTGCTGCTGCTGCTG	2550
Db	1669	CGCAGGTCTCGGTTCTTGGCATGGGGCGAGCGCGCTGCTGCTGTGCTGCTGCTGCTGCTGCTG	1728
Qy	2551	AGCCTGGCGCTGGGCGCTTGTGCTGGCTGTCTTTTGGGGCTGTTTCGTTACCATCGGGACAGC	2610
Db	1729	AGCCTGGCGCTGGGCGCTTGTGCTGGCTGTCTTTTGGGGCTGTTTCGTTACCATCGGGACAGC	1788
Qy	2611	CCACTGTTTCAGGCTCGGGGGGGCCCCCTGGCTGTCTTTGGCTGTGTTGGCTGTGCTGTGGGCTG	2670
Db	1789	CCACTGTTTCAGGCTCGGGGGGGCCCCCTGGCTGTCTTTTGGCTGTGTTGGCTGTGCTGTGGGCTG	1848
Qy	2671	GTCTGCGCTCAGCGTCTCTCTGTTTCCCTGGGCGAGCCGACGCGCTGCCGATGCCGTGGCCCGAG	2730
Db	1849	GTCTGCGCTCAGCGTCTCTCTGTTTCCCTGGGCGAGCCGACGCGCTGCCGATGCCGTGGCCCGAG	1908
Qy	2731	CAGGCCCTTGTCCACACTCCCGCTCACGGGCTGCTGAGCACACTCTTCTTCGACGGCGCGCC	2790
Db	1909	CAGGCCCTTGTCCACACTCCCGCTCACGGGCTGCTGAGCACACTCTTCTTCGACGGCGCGCC	1968
Qy	2791	GAGATCTTGTGAGTCAAGAACTGCTCTCAGCTGTGGGCGACGCGCTGTGAGTGGCTGTGCTG	2850
Db	1969	GAGATCTTGTGAGTCAAGAACTGCTCTCAGCTGTGGGCGACGCGCTGTGAGTGGCTGTGCTG	2028
Qy	2851	CGGGGGCCCTGGGCGCTGGCTGGTGTGCTGCTGGCCATGCTGCTGTGGAGTTCGCACCTGTGC	2910
Db	2029	CGGGGGCCCTGGGCGCTGGCTGGTGTGCTGCTGGCCATGCTGCTGTGGAGTTCGCACCTGTGC	2088
Qy	2911	ACCTGTGTACCTGTGTGGCGTTTCCGCGCGGAGGTGGTGACGGACTGGCACATGCTGCCACG	2970
Db	2089	ACCTGTGTACCTGTGTGGCGTTTCCGCGCGGAGGTGGTGACGGACTGGCACATGCTGCCACG	2148
Qy	2971	GAGCGCTGTGTGCACTGCGCGCAACGCTCTCTGGGTGAGCTTGGGCTGAGCGGCGACGCCAACC	3030
Db	2149	GAGCGCTGTGTGCACTGCGCGCAACGCTCTCTGGGTGAGCTTGGGCTGAGCGGCGACGCCAACC	2208
Qy	3031	AATGCCACGCTGGCCTTTCTCTGTTCTCTGGGCACCTTCTCTGTGGGAGCCGACGCCGGCC	3090
Db	2209	AATGCCACGCTGGCCTTTCTCTGTTCTCTGGGCACCTTCTCTGTGGGAGCCGACGCCGGCC	2268
Qy	3091	TGCTACAAACGCTGCGCGCTCACCTTTTGCCATGCTGGCCTACTTCATCACTGGGCTC	3150
Db	2269	TGCTACAAACGCTGCGCGCTCACCTTTTGCCATGCTGGCCTACTTCATCACTGGGCTC	2328
Qy	3151	TCCTTTGTGCCCTCTCTGGCCAAATGTGCAAGTGGTCTCTCAGGCCCGCGCTGCAGATGGCC	3210
Db	2329	TCCTTTGTGCCCTCTCTGGCCAAATGTGCAAGTGGTCTCTCAGGCCCGCGCTGCAGATGGCC	2388
Qy	3211	GCCCTCTGCTCTGTGTCTTGGGCATCTGGCTGCTTCCACCTGCCCGAGGTGTACTCTG	3270
Db	2389	GCCCTCTGCTCTGTGTCTTGGGCATCTGGCTGCTTCCACCTGCCCGAGGTGTACTCTG	2448
Qy	3271	CTCATGGCGGACGACGGGCTCAACACCCCGAGTTCTTCTCTGGAGGGGGCCCTCTGGGGAT	3330
Db	2449	CTCATGGCGGACGACGGGCTCAACACCCCGAGTTCTTCTCTGGAGGGGGCCCTCTGGGGAT	2508
Qy	3331	GCCCAAGCCAGAAATGACGGGAACACAGGAAATCAGGGGAAACATGAGTGA	3381
Db	2509	GCCCAAGCCAGAAATGACGGGAACACAGGAAATCAGGGGAAACATGAGTGA	2559

RESULT 4
US-11-050-804-5
; Sequence 5, Application US/11050804
; Publication No. US20050287517A1
; GENERAL INFORMATION:
; APPLICANT: ADLER, JON ELLIOT
; APPLICANT: LI, XIANGDONG
; APPLICANT: STAZEWSKI, LENA

; APPLICANT:	XU, HONG
; APPLICANT:	EHEVERRI, FERNANDO
; TITLE OF INVENTION:	TIR HETERO-OLIGOMERIC TASTE RECEPTORS
; FILE REFERENCE:	TI1530-0006
; CURRENT APPLICATION NUMBER:	US/11/050,804
; CURRENT FILING DATE:	2005-02-07
; PRIOR APPLICATION NUMBER:	09/897,427
; PRIOR FILING DATE:	2001-07-03
; PRIOR APPLICATION NUMBER:	60/284,547
; PRIOR FILING DATE:	2001-04-19
; PRIOR APPLICATION NUMBER:	60/300,434
; PRIOR FILING DATE:	2001-06-26
; NUMBER OF SEQ ID NOS:	10
; SOFTWARE:	PatentIn ver. 3.3
; SEQ ID NO 5	
; LENGTH:	2559
; TYPE:	DNA
; ORGANISM:	Homo sapiens
US-11-050-804-5	
Query Match	53.2%; Score 1895.4; DB 11; Length 2559;
Best Local Similarity	80.7%; Pred.No. 8.7e-308;
Matches 2558; Conservative	0; Mismatches 1; Indels 612; Gaps 5;
Qy	211 ATGCTGGGCCCTGTCTTCCTGGGCCTCAGCCCTCTGGGCTCTCCCTGCACCCCTGGACCGGG 270
Dd	1 ATGCTGGGCCCTGTCTCTGGGCCTCAGCCCTCTGGGCTCTCCCTGCACCCCTGGACCGGG 60
Qy	271 GCCCATTTGSCCTGTCAACAACTTAGGATGAAGGGGACTACGTCTGGGGGGCTG 330
Dd	61 GCCCATTTGSCCTGTCAACAACTTAGGATGAAGGGGACTACGTCTGGGGGGCTG 120
Qy	331 TTCCCCCTTGGCGAGGCCGAGGAGGCTGGCCCTCCGCAGCCGGAACA CGGCC CAGCAGCCCT 390
Dd	121 TTCCCCCTTGGCGAGGCCGAGGAGGCTGGCCCTCCGCAGCCGGAACA CGGCC CAGCAGCCCT 180
Qy	391 GTGTGCACCAGGTA CAGAGGTGGGAGCGCCCTGGGTCTGGGGGT CAGGGTGAC CAGGTCTGGG 450
Dd	181 GTGTGCA ----- 187
Qy	451 GTGCTCCTGAGCTGGGGCCGAGGTGGCCATCTGGGGTTCTGTGTGGCCCCAGGTTCCTCT 510
Dd	188 ----- -CCAGTTCTCT 199
Qy	511 CA AACGGCCTGCTCTGGGCACTGGCCATGAAAATGGCCGTGGAGGAGATCAACAAAGT 570
Dd	200 CA AACGGCCTGCTCTGGGCACTGGCCATGAAAATGGCCGTGGAGGAGATCAACAAAGT 259
Qy	571 CGGATCTGCTGCCGGGTGGCCCTGGGCTACGACCTCTTTGATACGTCTCGGAGCCGT 630
Dd	260 CGGATCTGCTGCCGGGTGGCCCTGGGCTACGACCTCTTTGATACGTCTCGGAGCCGT 319
Qy	631 TGTGTGCCATGAAGCCAGCCCTCATGTTCTTGGCCAAGGCAGGACCGCACATCGCG 690
Dd	320 TGTGTGCCATGAAGCCAGCCCTCATGTTCTTGGCCAAGGCAGGACCGCACATCGCG 379
Qy	691 CCTACTGCAACTACACGCAGTACAGCCCGGTGCTGGCTGTCTCATCGGGCCCCACTCGT 750
Dd	380 CCTACTGCAACTACACGCAGTACAGCCCGGTGCTGGCTGTCTCATCGGGCCCCACTCGT 439
Qy	751 CAGAGCTGCCATGTGTACCGGAAAGTTCTTCAGCTTCTTCTCATATGCCCATGTGGGGCG 810
Dd	440 CAGAGCTGCCATGTGTACCGGAAAGTTCTTCAGCTTCTTCTCATATGCCCATGTGGGGCG 489
Qy	811 CCCCCCACATCACCCACCCCAACCCCTGCCCTGGGAGCCCTTGTGTGTCAGGA 870
Dd	490 ----- 489
Qy	871 GAATGCTACATGCACCCCAACCCAGCCCTGCCCTGGGAGCCCTGTGTGTGTCAGAGATGCTTT 930
Dd	490 ----- 489
Qy	931 GGCCTTGCAAGTCACTAGCGTGTGCTAGCATGGAGTGTGTAGCGGCCCGGAGACCTTCC 990

QY	571	CGGATCTGTCGCGGCTGCGCTGGCTAGACCTCTTTGATAGTCTCGGAGCCTG	630	QY	1651	CCAGGCTCTGCAACAACACTCTTTAGTGCACACGCTCAGGCTGCCCGCGCAGACCCCGT	1710
DB	260	CGGATCTGTCGCGGCTGCGCTGGCTAGACCTCTTTGATAGTCTCGGAGCCTG	319	DB	1203	CCAGGCTCTGCAACAACACTCTTTAGTGCACACGCTCAGGCTGCCCGCGCAGACCCCGT	1262
QY	631	TGGTGGCCATGAAGCCCAAGCCTCATGTTCTTGGCCAAAGCAGCAGCCGACATGCGCG	690	QY	1711	GAAGCCCTGGCAGGTGAGCCCGGAGATGGGGGTGTGCTCTCTGATGTGCCAGGC	1770
DB	320	TGGTGGCCATGAAGCCCAAGCCTCATGTTCTTGGCCAAAGCAGCAGCCGACATGCGCG	379	DB	1263	GAAGCCCTG-----	1271
QY	691	CCTACTGCAACTACAGCAGTACAGCCCGCGTGTGCTGTGCTGTATCGGGCCCACTCGT	750	QY	1771	CACGAGCAGCGGCCACACGCTGAGCTGGAGGTGGCTGCGCGCTCAGCCCCGTCCCCG	1830
DB	380	CCTACTGCAACTACAGCAGTACAGCCCGCGTGTGCTGTGCTGTATCGGGCCCACTCGT	439	DB	1272	-----	1271
QY	751	CAGAGCTCGCCATGCTACCGGCAAGTCTTCTAGCTTTCTTCTCATGCTCGGAGTGGGG	810	QY	1831	CCCGCAGCTCTCTGGAGAACATGTACAACTGACCTTCCACGTGGGGGGGCTCGCGTGG	1890
DB	440	CAGAGCTCGCCATGCTACCGGCAAGTCTTCTAGCTTTCTTCTCATGCTCGGAGTGGGG	489	DB	1272	---GCAGCTCTCTGGAGAACATGTACAACTGACCTTCCACGTGGGGGGGCTCGCGTGG	1328
QY	811	CCCCCACCATCACCCACCCCAACCAACCCCTGCCCCCGTGGAGGCCCTTGTGTGAGGA	870	QY	1891	GTTTGACACAGCAGCGGAAACGTGGACATGGAGTACGACCTGAGCTGTGGGTGGCAGGG	1950
DB	490	-----	489	DB	1329	GTTTGACACAGCAGCGGAAACGTGGACATGGAGTACGACCTGAGCTGTGGGTGGCAGGG	1388
QY	871	GAATGTACATGACCCCAACCCAGCCCTGCCCCCTGGAGGCCCTGTGTACAGATGCTCTT	930	QY	1951	CTCAGTGGCCAGGCTCCACGAGTGGGCAAGTTTCAAACGCGCAGCCTCAGACAGAGCGCCT	2010
DB	490	-----	489	DB	1389	CTCAGTGGCCAGGCTCCACGAGTGGGCAAGTTTCAAACGCGCAGCCTCAGACAGAGCGCCT	1448
QY	931	GGCCTTGCAAGTACAGTACGCTAGCAGTGGAGCTGTGAGCGCCCGGGAGACCTTCCC	990	QY	2011	GAAGATCCGCTGGCACAACCTCTGACAAACACAGGTGAGGTGAGGGTGGTGCACAGGGCTG	2070
DB	490	-----	542	DB	1449	GAAGATCCGCTGGCACAACCTCTGACAAAC-----	1476
QY	991	CTCCTTTCTCCGACACCGTGCAGCAGCAGCTGTGACAGCTGACCGCCCGCGAGCTGCT	1050	QY	2071	CCCGTGGTAGCCCCCGCGCAGGGCGCAGCCTGGGGGTGGGGCGCTTCCAGTCTCCCGT	2130
DB	543	CTCCTTTCTCCGACACCGTGCAGCAGCAGCTGTGACAGCTGACCGCCCGCGAGCTGCT	602	DB	1477	-----	1476
QY	1051	GCAGGAGTTTGGCTGAACTGGGTGGCGCCCTTGGGAGGCGACGAGTACGGCCGGCA	1110	QY	2131	GGGATGCCACGCGCAGCAGACGACAGCCAGGCTGTGCGCAGAGCCCGGTGTCCCGG	2190
DB	603	GCAGGAGTTTGGCTGAACTGGGTGGCGCCCTTGGGAGGCGACGAGTACGGCCGGCA	652	DB	1477	-----	1494
QY	1111	GGGCTTGAGCATTTCTCGGCTTGGCGCGGCGCAGCGGATCTGATCGCAGCAGGG	1170	QY	2191	TGCTCGCGCAGTGCAGAGGCGCAGGTGCGCGCGGTCAAAGGGTTTCACTCTGTGTCG	2250
DB	663	GGGCTTGAGCATTTCTCGGCTTGGCGCGGCGCAGCGGATCTGATCGCAGCAGGG	722	DB	1495	TGCTCGCGCAGTGCAGAGGCGCAGGTGCGCGCGGTCAAAGGGTTTCACTCTGTGTCG	1554
QY	1171	CTGTGTGCGCTGCCCGTCCGATGACTCGCGGCTGGGAGAGGTGAGGACCTCTGCA	1230	QY	2251	TACGACTGTGTGAGTGCAGAGGCGGCGAGTACCGGCAAAACCCAGGTGAGCGCCCTTCC	2310
DB	723	CTGTGTGCGCTGCCCGTCCGATGACTCGCGGCTGGGAGAGGTGAGGACCTCTGCA	782	DB	1555	TACGACTGTGTGAGTGCAGAGGCGGCGAGTACCGGCAAAAC-----	1597
QY	1231	CCAGGTGAACACAGACAGCGTGCAGGTGTGCTGTGCTTCCCTCCGTGCAACCGCCCA	1290	QY	2311	CGGACGCGGGGTGGGAAACGACAGGGGAGGCTCTGTCCAAAGTCTGTGACTGTGAGACC	2370
DB	783	CCAGGTGAACACAGACAGCGTGCAGGTGTGCTGTGCTTCCCTCCGTGCAACCGCCCA	842	DB	1598	-----	1597
QY	1291	CGGCTCTTCAACTACAGCATCAGCAGCGCTCTCGCCCAAGGTGTGGTGGCCAGCGA	1350	QY	2371	AGAGCCCAAGGGTACAAGACGAACACCCAGCGCCCTTCTCTCTCAAGACGACATC	2430
DB	843	CGGCTCTTCAACTACAGCATCAGCAGCGCTCTCGCCCAAGGTGTGGTGGCCAGCGA	902	DB	1598	-----	1608
QY	1351	GGCTGGCTGACCTCTGACCTGTGCTATGGGGCTGCCCGGATGCCCGCAGATGGGACGGT	1410	QY	2431	GCCTGACCTTTTGTGGCCAGGATGAGTGTCCCGGAGCGAAGCAACGCTGCTCCG	2490
DB	903	GGCTGGCTGACCTCTGACCTGTGCTATGGGGCTGCCCGGATGCCCGCAGATGGGACGGT	962	DB	1609	GCCTGACCTTTTGTGGCCAGGATGAGTGTCCCGGAGCGAAGCAACGCTGCTTCCG	1668
QY	1411	GCTTGGCTTCTCCAGAGGGGTGCCAGTGTGCAAGTTCCTCCAGTACCTGAAGACGCA	1470	QY	2491	CGCAGGTCTCGGTTCCTTGGCATGGGCGAGCCGCTGTGTGTGTGTGTGTGTGTGTGTGT	2550
DB	963	GCTTGGCTTCTCCAGAGGGGTGCCAGTGTGCAAGTTCCTCCAGTACCTGAAGACGCA	1022	DB	1669	CGCAGGTCTCGGTTCCTTGGCATGGGCGAGCCGCTGTGTGTGTGTGTGTGTGTGTGTGT	1728
QY	1471	CTTGGCCCTGGCCACCGACCGGCTTCTGCTGTGCTGCTGCTGCTGCTGCTGCTGCTGCT	1530	QY	2551	AGCTCGGCTGGGCTTGT	2610
DB	1023	CTTGGCCCTGGCCACCGACCGGCTTCTGCTGTGCTGCTGCTGCTGCTGCTGCTGCTGCT	1082	DB	1729	AGCTGGGCTGGGCTTGT	1788
QY	1531	GGAGGAGGAGCTGGTGGGCGCAGCGCTCCCGCAGTGTGACTGATCAGCTGCGAGACGT	1590	QY	2611	CCAATGCTCAGGCTTCCGCGGGGCTTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT	2670
DB	1083	GGAGGAGGAGCTGGTGGGCGCAGCGCTCCCGCAGTGTGACTGATCAGCTGCGAGACGT	1142	DB	1789	CCAATGCTCAGGCTTCCGCGGGGCTTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT	1848
QY	1591	GAGCGCAGGCTTAAATCACACACAGAGCTTCTGTGTGTGTGTGTGTGTGTGTGTGTGT	1650	QY	2671	GTCTGCTCAGGCTTCCGCGGGGCTTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT	2730
DB	1143	GAGCGCAGGCTTAAATCACACACAGAGCTTCTGTGTGTGTGTGTGTGTGTGTGTGTGT	1202	DB	1849	GTCTGCTCAGGCTTCCGCGGGGCTTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT	1908
				QY	2731	CAGCCCTTGTCCCAACCTCCCGCTCAACGCGGCTGCTGTGAGCAGACTTCTTCTGTGAGCGGCC	2790


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Db 1909 CAGCCCTGTCCACACTCCCGCTCAGGGCTGCTGAGCACACTCTTCTGAGCGCGCC 1968
Qy 2791 GAGATCTTTGAGAGTCAGAACTGCTCTGAGCTGGGAGACCGGCTGAGTGGCTGCCTG 2850
Db 1969 GAGATCTTTGAGAGTCAGAACTGCTCTGAGCTGGGAGACCGGCTGAGTGGCTGCCTG 2028
Qy 2851 CGGGGGCCCTGGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCT 2910
Db 2029 CGGGGGCCCTGGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGG 2088
Qy 2911 ACCTGATACCTGGTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGG 2970
Db 2089 ACCTGATACCTGGTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGG 2148
Qy 2971 GAGGCGCTGGTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGG 3030
Db 2149 GAGGCGCTGGTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGG 2208
Qy 3031 AATGCCAGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCT 3090
Db 2209 AATGCCAGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGG 2268
Qy 3091 TGCTACACCGTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGG 3150
Db 2269 CGCTACACCGTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGG 2328
Qy 3151 TCCTTTGTGCCCCCTCTGCGCCAAATGTCAGGTGGTCTCTCAGGCCCGCGCTGAGATGGC 3210
Db 2329 TCCTTTGTGCCCCCTCTGCGCCAAATGTCAGGTGGTCTCTCAGGCCCGCGCTGAGATGGC 2388
Qy 3211 GCCCTCTGCTGTGTCTGCTGGGCAATCTGCTGGCTGGCTGGCTGGCTGGCTGGCTGG 3270
Db 2389 GCCCTCTGCTGTGTCTGCTGGGCAATCTGCTGGCTGGCTGGCTGGCTGGCTGGCTGG 2448
Qy 3271 CTCATGCGCGACGAGGCTCAACCCCGCGAGTCTTCTCTGGAGGGGGCCCTGGGGAT 3330
Db 2449 CTCATGCGCGACGAGGCTCAACCCCGCGAGTCTTCTCTGGAGGGGGCCCTGGGGAT 2508
Qy 3331 GCCCAAGGCGAGAAATGACGGGAACACAGGAATCAGGGGAACATGAGTGA 3381
Db 2509 GCCCAAGGCGAGAAATGACGGGAACACAGGAATCAGGGGAACATGAGTGA 2559
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RESULT 6

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US-10-645-441-16
; Sequence 16, Application US/10645441
; Publication No. US20050260599A1
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GENERAL INFORMATION:

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; APPLICANT: Zuker, Charles S.
; APPLICANT: Ryba, Nicholas J.P.
; APPLICANT: Nelson, Greg
; APPLICANT: Hoon, Mark A.
; APPLICANT: Chandrasekar, Jayaram
; APPLICANT: Zhang, Yifeng
; APPLICANT: The Regents of the University of California
; APPLICANT: The Government of the United States of America
; APPLICANT: as represented by the Secretary of the
; APPLICANT: Department of Health and Human Services
; TITLE OF INVENTION: Mammalian Sweet Taste Receptors
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; FILE REFERENCE: 02307E-120110US
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; CURRENT APPLICATION NUMBER: US/10/645,441
; CURRENT FILING DATE: 2003-08-20
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; PRIOR APPLICATION NUMBER: US/09/927,315
```

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; PRIOR FILING DATE: 2001-08-10
```

```
; PRIOR APPLICATION NUMBER: US 60/302,898
```

```
; PRIOR FILING DATE: 2001-07-03
```

```
; NUMBER OF SEQ ID NOS: 25
```

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; SOFTWARE: PatentIn Ver. 2.1
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; SEQ ID NO 16
```

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; LENGTH: 3240
```

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; TYPE: DNA
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; ORGANISM: Mus musculus
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FEATURE:

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; OTHER INFORMATION: mouse Sac non taster 129 T1R3 sweet taste receptor
; OTHER INFORMATION: genomic
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US-10-645-441-16
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Query Match 36.3%; Score 1293; DB 7; Length 3240;
Best Local Similarity 66.1%; Pred. No. 2.8e-207;
Matches 2141; Conservative 0; Mismatches 900; Indels 198; Gaps 11;
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Qy 193 TTGGAAGTTGGCTCTGCCATGCTGGGCCCTGCTGCTCTGGGCTCAGGCTCTGGGCTCTC 252
Db 44 TGGAGACTTCTACCTTACCATTGCCAGCTTTGGCTATCATGGGTCTCAGGCTGGCTCTTTC 103
Qy 253 CTGCACCTCCGACGGGGGCCCATTTGCTGTCTCACAGCAACTTAGAGTGAAGGGGAC 312
Db 104 CTGGAGCTTGGGATGGGGGCTCTTTTGTCTGTCTCACAGCAATTCAAGGCACAAGGGGAC 163
Qy 313 TACGTGCTGGGGGGCTGTTCCTCCCTGGGCGAGGCCGAGGAGGCTTGGCTCTCCGACCGG 372
Db 164 TACATACTGGGGGGCTATTTCCCTGGGCTCGACCGAGGAGGCCACTCTCAACACAGAGA 223
Qy 373 ACACGGCCACGACGCCCTGTGTGACACAGGTACAGAGTGGGACCGGCTTGGGTCTGGGTC 432
Db 224 GCACAACCCAAACAGCACCTGTGTAAAGGTATGAGGCTAGTAGCTGGGTGGGAGTGA 283
Qy 433 AGGTGACACGG-----TCTGGGGTGTCTCTGAGCTGGGCGCGAGGTGGCCATCT 482
Db 284 ACCGAAGCTTGGCAGCTTTGGCTCGTGGTACTACCAATCTGGGGAAGGGGTGGTATC- 342
Qy 483 GCGGTTCTGTGTGGGCCCCAGGTTCTCTCAAAACGGGCTGTCTTGGGCACTGGCCATGAAA 542
Db 343 -AGTTTCCATGTGGCTCAGGTTCTCACCCCTGGTGTGTTGTTCTTGGCCATGGCTATGAG 401
Qy 543 ATGGCCGTGGAGGAGATCAAACAAGTCTGATCTGTCTCCCGGGCTGGGCTCTGGGCTAC 602
Db 402 ATGGCTGTGGAGGAGATCAAACAATGATCTGTCTTGTCTCCCTGGGCTGGGCTGGGCTAT 461
Qy 603 GACCTTTTGTATCGTGTCTGGAGCTGTGTGGCCATGAGCCAGGCTCATGTTCTCTG 662
Db 462 GACCTATTGTGACATGTCTCGAGCCAGTGGTCAACATGAATCCAGTCTCATGTTCTCTG 521
Qy 663 GCCAAGGCGAGCGCGGACATCGCCGCTACTGCAACTACACGACGATCACAGCCCGCT 722
Db 522 GCCAAGTGGGCGAGTCAAAGCATTTGCTGCTACTGCAACTACACAGATACCAACCCCT 581
Qy 723 GTGCTGGCTGTATCGGCCCCACATCTGTCAGAGCTGGCCATGGTCAACCGGAAAGTCTTTC 782
Db 582 GTGCTGGCTGTATCGGCCCCACATCTCATCAGAGCTTGGCTCATTTACAGGCAAGTCTTTC 641
Qy 783 AGCTTCTTCTCATGCCCCCAGTGGGGCGCCCCCACCACCATCACCCACCCCAACCAACCC 842
Db 642 AGCTTCTTCTCATGCCCCCAGTGGGGCGCCCCCACCACCATCACCCACCCCAACCAACCC 672
Qy 843 TGCCCCGTGGGAGCCCTTGTGTGAGGAGAAATGTCTACATGCAACCCCAACCCAGCCCTGCC 902
Db 673 -----TTCCTTTGTGTTCTCAACCGATGACCCA 702
Qy 903 TGGGAGCCCTGTGTGAGAAAGATGCTCTTGG--CCTTGGAGGTGAGTACGAGTGTAGCAT 960
Db 703 TTGAGCTCTCATCATCAGAAAGTGTCTTTGATCACACAGGTGAGTATAGGCCAGCAT 762
Qy 961 GGAGCTGTGAGCGCCCGGAGACCTTCCCTCTTCTTCCGACCGTGGCCGAGGACCG 1020
Db 763 GGATCGGTAAAGTGAACCGGAAACGTTTCCATCTTCTTCCGACAGTGGCCAGTGAACCG 822
Qy 1021 TGTGAGCTGACGGCGCGCGGAGCTGTGTGAGGAGTTGGCTTGGAACTGGGTGGCCCG 1080
Db 823 GGTGAGCTGACGGCAGTTGTGACTCTGTGTGAGAACTTACGTGGAATCTGGGTGGCCCG 882
Qy 1081 CCTGGGACGACGACGAGTACGGCCGCGGAGGCTGTAGCATCTTCTTGGCCCTGGCCCG 1140
Db 883 CTTAGGGAGTGTATGATGACTATGGCCGGGAGGCTGTAGCATCTTTTCTAGTCTGCCCAA 942
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Db 3053 GCCCTGGGGCATCCTGGTCACTTCACCTGCCCAAGTGTATGTGCTTCTTTGGCTGCCA 3112
Qy 3286 GGGCTCAACACCCCGAGTTCTTCTGGGAGGGGCCCTTGGGGATGCCCAAGGCCAGAA 3344
Db 3113 AAGCTCAACACCCAGGAGTTCTTCTGGGAAGGAATGCCAAGAAAGCAGCATGAGAA 3171

RESULT 7

US-10-645-441-21
; Sequence 21, Application US/10645441
; Publication No. US20050260599A1
; GENERAL INFORMATION:
; APPLICANT: Zuker, Charles S.
; APPLICANT: Ryba, Nicholas J.P.
; APPLICANT: Nelson, Greg
; APPLICANT: Hoon, Mark A.
; APPLICANT: Chandrashekar, Jayaram
; APPLICANT: Zhang, Yifeng
; APPLICANT: The Regents of the University of California
; APPLICANT: The Government of the United States of America
; APPLICANT: as represented by the Secretary of the
; APPLICANT: Department of Health and Human Services
; TITLE OF INVENTION: Mammalian Sweet Taste Receptors
; FILE REFERENCE: 02307E-120110US
; CURRENT APPLICATION NUMBER: US/10/645,441
; PRIORITY FILING DATE: 2003-08-20
; PRIOR APPLICATION NUMBER: US/09/927,315
; PRIOR FILING DATE: 2001-08-10
; PRIOR APPLICATION NUMBER: US 602,898
; PRIOR FILING DATE: 2001-07-03
; NUMBER OF SEQ ID NOS: 25
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 21
; LENGTH: 3200
; TYPE: DNA
; ORGANISM: Mus musculus
; FEATURE:
; OTHER INFORMATION: mouse Sac taster C57 Tir3 sweet taste receptor
; OTHER INFORMATION: genomic
US-10-645-441-21

Query Match 36.2%; Score 1291; DB 7; Length 3200;
Best Local Similarity 65.9%; Pred. No. 6e-207;
Matches 2161; Conservative 0; Mismatches 920; Indels 198; Gaps 12;
Qy 193 TTGGAGTTGGCTCTGCCATGCTGGGCCCTGTGTCCTGGGCTCAGCCCTCTGGGCTCTC 252
Db 27 TGGAGACTTCTACCTACCATGCCAGCTTTGGCTATCATGGGCTCAGCCCTGGCTGCTTTC 86
Qy 253 CTGCACCTTGGAGCGGGGCCCATTTGTCCTGTACAGCAACTTAGGATGAAGGGGAC 312
Db 87 CTGGAGCTTGGGATGGGGGCTCTTTGTGCTGTCTACAGCAATTCAAAGGCACAAGGGGAC 146
Qy 313 TACGTGCTGGGGGGCTGTTCCCTGGCGAGGGCGAGAGGCTGGCCCTCCGAGCGCG 372
Db 147 TACATACTGGGGGGGCTATTTCCCTGGGCTCAACCGAGAGGCCACTCTCAACACAGAGA 206
Qy 373 ACACGGCCACGAGCGCCCTGTGTGCACACAGGTACAGAGTGGGACCGGCTGGGTTCGGGGTC 432
Db 207 ACACAACCCACACAGCATCCCGTGCACACAGATATGGAGGGCTAG-TAGTGGGGTGGGAGTG 265
Qy 433 AGGGTGACCAAGTCTGGGGTGTCTCTAGCTGGGGCCGAGGTGGCCATCTGCGG----- 486
Db 266 AACCCGAAGCTTGGCAGCTTTGGCTCGGTGTACTACCAATCTGGGAAGAGGTGGTATCA 325
Qy 487 --TTCTGTGTGGCCCGCAGGTTCTCTCAACCGGCTGTCTGGGCACTGGCCATGAAT 544
Db 326 GTTTCATGTGGCTCAGGTTCTTACCCCTTGTGTTTCTTGGCCATGGCTATGAAGAT 385
Qy 545 GGCCGTGGAGGAGATCAACAACAAGTCCGATCTGTGTCGCCGGGCTGCGCTGGGCTACGA 604
Db 386 GGCTGTGGAGGAGATCAACAATGGATCTGCCCTTGCTCCCTGGGCTGCGGCTGGGCTATGA 445

Qy 605 CCTCTTGTATAGTGTCTGGAGCCTGTGTGGCCATGAAGCCAGCCCTCATGTCTCTGGC 664
Db 446 CCTATTTGACACATCTCCGAGCCAGTGTACCATGAATCCAGTCTCATGTTCTCTGGC 505
Qy 665 CAAGCAGGCGCCCGACATCGCGCCTACTCTGCAACTACACGCAAGTACCAAGCCCGTGT 724
Db 506 CAAGTGGCAGTCAAAGCATTTGCTGCTCTACTGCAACTACACAGTACCAACCCCGTGT 565
Qy 725 GCTGCTGTCTATCGGGCCCACTGTGTAGAGTGTGCCATGTGTACCGCAAGTCTTTCAG 784
Db 566 GCTGCTGTCTATCGGGCCCACTCATCAGAGTGTGCCCTCATTACAGCAAGTCTTTCAG 625
Qy 785 CTTCTTCTCTATGCCCGGCGGCCCAACCATCACCCCAACCCCAACCCCTG 844
Db 626 CTTCTTCTCTATGCCCGGCGGCCCAAC----- 654
Qy 845 CCCCCTGGGAGCCCTTGTGTAGGAGATGTATCATGACCCCAACCCAGCCCTCCCTG 904
Db 655 -----TTCTTTGTGTCTCAACCGATTGCAACCATTT 686
Qy 905 GGAGCCCTGTGTGAGAAATGCTCTTGG--CCTTGCAGGTCAAGTACCGTGTAGCATGG 962
Db 687 GAGCTCTCATATCAGAAAGTCTTCTTGATCACCAAGTCAAGTATAGTGCAGCATGG 746
Qy 963 AGCTGTGAGCGCCCGGAGACCTTCCCTCTTCCGCAACCGTGCAGCGAGCCGCTG 1022
Db 747 ATCGGCTAAGTGACCGGGAACGTTTCCATCTCTTTCGACAGTGCCTAGTGCAGCGG 806
Qy 1023 TGCAGCTGACCGCCCGCGGAGTGTCTGCAGAGTTCGGCTGGAATCGGTGGCGGCC 1082
Db 807 TGCAGCTGCAGGCACTGTGATCTCTGTTGCAGAACTTCAGCTGGAACCTGGGTGGCGCCT 866
Qy 1083 TGGGAGCGACGACAGTACGCGCGGAGGCTGTGTCGCGCTGCCCTGCGGCTGAGTCCG 1142
Db 867 TAGGAGTGAATGACTATATGCGCGGAAGGCTCTGAGCATCTTTTCTAGTCTGGCAATG 926
Qy 1143 CACGCGGCTATGTCATCGCGCAGAGGCTGTGTCGCGCTGCCCTGCGGCTGAGTCCG 1202
Db 927 CACGAGGTATCTGCATCGCACATGAGGCTGTGTCGCGCAACATGACACTAGTGGCCAC 986
Qy 1203 GGCTGGGAAGGTGCAGGACGCTCTGTCACAGGTGAACAGAGCGGTGAGGTGGTGC 1262
Db 987 AGTTGGGCAAGTGTGATGTACTACGCCAAGTGAACAAAGTAAAGTACAAGTGGTGG 1046
Qy 1263 TGCTGTTGCTTCCGTGACGCGGCCAGCGCCTCTTCACTACAGCATCAGCAGCAGGC 1322
Db 1047 TGCTGTTGCTTCCGTGCTGCTCTGCTCTGCTCTGCTCTGCTCTGCTCTGCTCTGCT 1106
Qy 1323 TCTGCCCAAGGTGGGTGGCCAGCGGCTGTGACCTCTGACCTGTGCTGCTGCTGCTGCTG 1382
Db 1107 TCTACCAAGGTATGGGTGGCCAGTGTGAGTCTTGGCTGACATCTGACCTGCTGCTGCTG 1166
Qy 1383 TGCCCGGATGGCCAGATGGGCACTGCTGCTGCTGCTTCCCTCAGAGGGGTGCCAGTGC 1442
Db 1167 TTCCCAATATTGCCCGTGTGGGCACTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1226
Qy 1443 AGGAGTTCGCCAGTACGTGAAGACGACCTGGGCCCTGGCCACCGACCGGCTTCTGCT 1502
Db 1227 CTGAATTTTCCATTTATGTGGAGACTCACTTGGCCCTGGCCGCTGACCCAGCATTTCTG 1286
Qy 1503 CTGCCCTGGGAGAGGAGGAGGCTGTGGAGAGGACGTGGTGGCGCAGCGCTGCGCCG 1562
Db 1287 CTTCACTGAATG----GGAGTTGGATCTGGAGGAACATGTATGGGCAACCGTGTCCAC 1343
Qy 1563 AGTGTGACTGCACTACGC-----TGAGAAACGTGAGCGCAG 1598
Db 1344 GGTGTGACGACATCATGTGCGAAGAACCTATCATCTGGGCTGTGCGAAGACCTATCAGCTG 1403
Qy 1599 GGTCTAAATCAACACAGAGTCTCTGTCTAGCAGTGTGTATAGCGTGGGCCAGGCC 1658
Db 1404 GGCAATTTGCAACCAACCAATATTTGCAACCTATGAGCTGTGTACAGTGTGGTCTAAGCCC 1463
Qy 1659 TGCAACAACACTCTTTCAGTGCAACGCTCAGGCTGCGCGCGAGGAGCCCGCTGAGGCCCT 1718

[illegible]

2497	Db	TTCTGTTCCAGGGCGCCAAAGCTCTGCGCAGCTGCCTTGCAACAACCAATGSGCTCACCT	2555
2748	Qy	CCCGCTCACGGGCTGCTGAGACACACTCTTCTGTCAGGCGGCGGAGATCTTGTGAGATC	2807
2557	Db	CCCTCTCA CAGGCTGCTCTGAGACACACTCTTCTGTCAGCAGCTGAGACCTTTTGTGAGTC	2616
2808	Qy	AGAACTGCCTCTGAGCTGGGACAGCCGGCTGAGTGGCTGCTGCGGGGGCCCTGGGCGCTG	2867
2617	Db	TGAGCTGCCACTGAGCTGGGCAAACTGGCTATG CAGCTACCTTTCGGGACTCTGGGCGCTG	2676
2868	Qy	GCTGTGTGTGCTGCTGGCCATGCTGCTGAGGTCGCACTGTGTGCACTCTGTGTACCTGTGTGC	2927
2677	Db	GCTAGTGGTACTGTTGGCCACTTTTGTGAGG CAGCACTATGTGCTGTGTAATTGTGATCGC	2736
2928	Qy	CTTCCCGCGGAGGTGGTGA CCGAGCTGGCACA TGTGCTGCCCA CGGAGGCGCTGTGCACTG	2987
2737	Db	TTTCCCA C CAGAGGTGGTGACAGACTGGTGAGTGCTGGCCCA CAGAGGTACTGGAGCACTG	2796
2988	Qy	CGGCACAGCTCTCTGGGT CAGCTTTCGGCCCTAGCGCACG CACCAATGCCACGCTGGCCCTT	3047
2797	Db	CCAGTGTGGTTCTTGGGT CAGCTTGGGCTTGGTG CACATCACCAATGCAATGTTAGCTTT	2856
3048	Qy	TCTCTGCTTCTCTGGGCACTTTTCTGTGTGGGAGCCAGCCGGGTGCTACAACCGTGGCCG	3107
2857	Db	CCTCTGCTTCTTGGGCACCTTCTCTGGTACAGAGCCAGCCCTGGCGGCTTACAACCGTGGCCG	2916
3108	Qy	TGGCTCACCTTTGGCACTGCTGSCCTACTTCATCACTCTGGTCTCTCTTTGTGCCCTCCCT	3167
2917	Db	TGGTCTCACCTTCGCCATGCTAGCTTATTTTCATCACTGAGGTCTCTTTTGTGCCCTCCCT	2976
3168	Qy	GGCCAATGTGCAGGTGGTCTCTCAGGCGCGCGCTGCAGATGGGCGCCCTCTCTGCTGTGTG	3227
2977	Db	GGCCAATGTGCAGTGGCTTACCAGCCAGCTGTGCAGATGGGTGCTATCTTAGTCTGTGC	3036
3228	Qy	CTTGGGATCTCTGGCTGCTTCCACCTGCCAGGTGTTACCTGCTCATGCGG CAGCCAGG	3287
3037	Db	CCTGGGCACTCTGGTCACCTTCCACCTGCCCACAGTCTATGTGCTCTCTTTTGGTGGCCAAA	3096
3288	Qy	GCTCAACACCCCGAGTTCTTCTCTGGAGGGGCGCTTGGGGATGCCCAAGGCCAGAA - - -	3344
3097	Db	GCTCAACACCCAGAGTTCTTCTCTGGNAGGAATGCCAAGAAAGCAGCAGATGAGAACAG	3156
3345	Qy	TGACGGGAACACAGGAAATCAGGGGAAACATGAGTGACC	3393
3157	Db	TGGCGGTGGTGGAGCAGCTCAGGGAACAATGAATGACC	3195

RESULT 8
US-10-725-475-11
; Sequence 11, Application US/10725475
; Publication No. US20060014208A1
; GENERAL INFORMATION:
; APPLICANT: ZOLLER, MARK
; APPLICANT: LI, XIADONG
; APPLICANT: STASZEWSKI, LENA
; APPLICANT: O'CONNELL, SHAWN
; APPLICANT: ZOZULYA, SERGEY
; APPLICANT: ADLER, JON
; APPLICANT: XU, HONG
; APPLICANT: ECHEVERRI, FERNANDO
; TITLE OF INVENTION: TIR HETERO-OLIGOMERIC TASTE RECEPTORS AND CELL LINES
; TITLE OF INVENTION: THAT EXPRESS SAID RECEPTORS AND USE THEREOF FOR
; TITLE OF INVENTION: IDENTIFICATION OF TASTE COMPOUNDS
; FILE REFERENCE: 078003-0291566
; CURRENT APPLICATION NUMBER: US/10/725,475
; CURRENT FILING DATE: 2003-12-03
; PRIOR APPLICATION NUMBER: 60/300,434
; PRIOR FILING DATE: 2001-06-26
; PRIOR APPLICATION NUMBER: 60/304,749
; PRIOR FILING DATE: 2001-07-13
; PRIOR APPLICATION NUMBER: 60/310,493
; PRIOR FILING DATE: 2001-08-08
; PRIOR APPLICATION NUMBER: 60/331,771

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; PRIOR FILING DATE: 2001-11-21
; PRIOR APPLICATION NUMBER: 60/339,472
; PRIOR FILING DATE: 2001-12-14
; PRIOR APPLICATION NUMBER: 60/372,090
; PRIOR FILING DATE: 2002-04-15
; PRIOR APPLICATION NUMBER: 60/374,143
; PRIOR FILING DATE: 2002-04-22
; NUMBER OF SEQ ID NOS: 19
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 11
; LENGTH: 2577
; TYPE: DNA
; ORGANISM: Rattus sp.
US-10-725-475-11

Query Match      23.5%; Score 835.6; DB 6; Length 2577;
Best Local Similarity 61.7%; Pred. No. 5.6e-131;
Matches 1775; Conservative 0; Mismatches 559; Indels 544; Gaps 6;

QY 499 CCAGGTTCTCTCAAAGCGCTGCTCTGGGCACTGGCCATGAAATGGCCGTGGAGAGA 558
DB 188 CCAGGTTCTCGCCCTTGGTTTGTTCCTGGCCATGGCTATGAAGATGGCTGAGAGAGA 247
QY 559 TCAACAACAAGTCGGATCTGCTGCCCGGCTGGGCTACGACCTCTTTGATAGT 618
DB 248 TCAACAATGGATCTGCTTGTCTCCCTGGGCTCGGACTGGGCTATGACCTGTTTGACAT 307
QY 619 GCTCGAGGCTGTGTGGCCATGAAGCCAGGCTCATGTTCCTGGCCAAAGCAGGCGAGCC 678
DB 308 GCTCAGAGCCATGCTCACCATGAAGCCAGGCTCATGTTTCATGGCCAAAGTGGGAAGTC 367
QY 679 GCGAATCGCCGCTACTGCAACTACACGCACTACAGGCGGCTGTGTGGCTGTCTATCG 738
DB 368 AAAGCATTTGCTGCTACTGCAACTACACGCACTACAGGCGGCTGTGTGGCTGTCTATG 427
QY 739 GCGCCCACTCGTCAGAGCTGCGCATGCTCAGCGGAAGTTCTTTCAGCTTCTTCTCTATGC 798
DB 428 GTCCCACTCATCAGAGCTTGCCCTCATTAAGGCAAGTTCTTTCAGCTTCTTCTCTATGC 487
QY 799 CCCAGTGGGGCGCCCCCACCACCATCACCCACCCCAACCAACCCCTGCCCCGTGGGAGGCC 858
DB 488 C----- 488
QY 859 CTTTGTGTAGGAGAAATGCTACATGACACCCAGCCCTGCGCTGGAGAGCCCTGTGTCA 918
DB 489 ----- 488
QY 919 GAAGATGCTCTTGGCCTTGACGTCAGCTACGTCAGTGTCTAGCATGGAGCTGTCAGCGCCG 978
DB 489 -----ACAGTCACTATAGTCCAGCATGGATCGGCTAAGTGACCG 530
QY 979 GGAGACCTTCCGCTCTTCCGCAACCGTGGCCAGGACCGCTGTGAGCTGACGCGCGC 1038
DB 531 GGAACATTTCCATCTTTCGACACAGTGGCCAGTACCGGCTGACGCTGACGCGCGT 590
QY 1039 CCGGAGCTGCTGCAAGAGTTTGGCTGTGAATCTGGGTGGCCGCTGGGAGCGAGCA 1098
DB 591 TGTGACACTGTTGCAAAATTTTCACTGTGAATCTGGGTGGCTGGTGTAGTGTGATGA 650
QY 1099 GTACGGCCGGCAGGCTGAGCATCTTCTCGGCCCTGGCGCGGCAAGGCTGTCGAT 1158
DB 651 CTATGGCCGGAGGCTGTGAGCATCTTTTCTGGTCTGGCCAACTCACGAGGTTATCTGCAT 710
QY 1159 CCGCACAGAGGCGCTGGTGGCTGCGGCTGCGCATGACTCGCGGCTGGGGAAGTGCA 1218
DB 711 TGCAACAGAGGCGCTGGTGGCCACACATGACACTAGTGGCCAACTTGGGCAAGTGT 770
QY 1219 GGAAGTCTGCAACAGGTTGAACAGAGAGCGGTGCAAGTGTGTGCTGCTGCTGCTGCT 1278
DB 771 GGAATGTGCTACGCCAAGTGAACCAAGCAAGTACAGGTGGTGGTGTGCTGCTGCTGCTGCT 830
QY 1279 GCACCGCGCCAGCGCTCTTCAACTACAGCATCAGCAGCAGGCTCTCGGCCCAAGGTGT 1338
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DB 831 CCGTGTGTCTACTCCCTTTTAGCTACAGCATCCTTCATGACCTCTCACCCCAAGGTATG 890
QY 1339 GGTGGCCAGCAGAGCGCTGCTGACTGACCTTGACTGTGTGAGGGCTGCGCGGATGCGCCA 1398
DB 891 GGTGGCCAGTGTGAGTCTGCTGACCTTGACTGTGTGATGACCTTCCCAATATTGCGCG 950
QY 1399 GATGGGCACGGTGTGCTTCTCCACAGAGGGTCCCGAGCTGACAGAGTTCCTCCAGTA 1458
DB 951 TGTGGGCACTGTTCTTGGGTTTCTGACGCGGGTCCCTACTGCTGCTGCTGCTGCTGCT 1010
QY 1459 CGTGAAGACGACACCTTGGCCCTGGCCACCGACCCGCGCTTCTGCTGCTGCTGCTGCTGCT 1518
DB 1011 TGTGGAGACTCGCTTGGCTTGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1067
QY 1519 GGAGCAGGGTCTGGAGAGGAGAGTGTGGGCCAGGCTGCGCGCAGTGTGACTGTGACTCATC 1578
DB 1068 TCAGTTGATCTGGAAGGAGCGGTGATGGGGCCACGCTGTTTCAAAATGTGACTTACATCAT 1127
QY 1579 GCTGCAGAACTGTAGCGCAGGCGCTAA-----ATCACCA 1614
DB 1128 GCTACAGAACTGTGCTATCTGGGCTGATGAGAACCTATCAGTGGGCGAGTTGCAACCA 1187
QY 1615 GACGTTCTCTGTACTACGAGCTGTGTATAGCGTGGCCCGCAGGCTTGCACAACTCTTCA 1674
DB 1188 AATATTGCAACCTATGACGCTGTGTACAGTGTGGCTCAGGCGCTTCAACACCTGCA 1247
QY 1675 GTGCAACGCTCAGGCTGCGCGCGCAGGACCCCGTGAAGCCCTGGCAGGTGAGCCCGG 1734
DB 1248 GTGCAATGTCTCAATTTGCCACATCAGAGGCTGTTTCAACCTG----- 1292
QY 1735 AGATGGGGTGTGTCTCTCTGTCATGTGTGCCAGGCCAGGACGCGCACCAACGCGCTG 1794
DB 1293 ----- 1292
QY 1795 AGTGGAGGTGGCTGGCGGCTCAGCGCTGCGCGCTGCGCGCGCTGCGGAGAACATGTA 1854
DB 1293 -----GACGCTCTGGAGAACATGTA 1313
QY 1855 CAACCTGACTTTCACGTGGGGCGGCTGCGGTGTGGTGTGACAGCAGCGGAGAAAGTGA 1914
DB 1314 CAATATGATTTCCGTGCTCGAGACTTGACACTGCACTGTGATGATGCAAGGAGTGTAGA 1373
QY 1915 CATGAGTACGACCTGAAGCTGTGGTGTGGCAGGCTCAGTGGCCAGGCTCCACGACCT 1974
DB 1374 CATGAAATATGACCTGAAGATGTGGTGTGGCAGAGCTTACCTGTGTACTACTACTGT 1433
QY 1975 GGGCAGGTTCAACGCGCAGCTCAGGACAGAGCGCTGAAGATCCGCTGGCAACGCTGA 2034
DB 1434 AGGCACCTTCAACGCGCACCTTTCAGCTGCAGCACTCGAAATGTATTGGC----- 1483
QY 2035 CAACAGGTGAGGTGAGGTTGGTGTGCCAGGCTGCGCGTGTAGCCCCCGGCGAGGG 2094
DB 1484 ----- 1483
QY 2095 CGCAGCTGGGGTGGGGCGCTTCCAGTCTCCCGTGGGCTATGCCAGCGAGAGAGCC 2154
DB 1484 ----- 1483
QY 2155 AGACCCAGGCTGTGCGCAGAAAGCCGCTGCTCCGCTGCTCGCGCAGTGTGCGCAGGAGGC 2214
DB 1484 -----CAGGCAACAGGTGCGAGTCTCCAGTGTCTCCGCGCAGTGCAGAGATGCG 1533
QY 2215 CAGGTGCGCGGCTCAAGGGTTTCACTTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 2274
DB 1534 CAGGTGCGCAGAGTAAAGGGCTTTTCACTTCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1593
QY 2275 GGCAGTACCGCAAAACCCAGGTGAGCGCTTCCCGCAGGCGGGGTGGGAAACGCGAG 2334
DB 1594 GGAAGCTACCGGAAGCATC----- 1612
QY 2335 CAGGGGAGGGTCTCTGCCAAGTCTTCACTGTGAGACAGAGCCCAAGGGTGAACAAGCA 2394
DB 1613 ----- 1612
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QY	800	CCAGTGGGGGCCCCCACCATCACCCACCCCAACCCCTGCCCCGCTGGAGCCCC	859	Db	1315	AAATATGAGTTTCCATGCTCGAGACTTGACACTACAGTTTGATGCTGAAGGGAATGTAGAC	1374
Db	489	-----	488				
QY	860	TTGTGTGAGGAGAAATCTATATGACACCCACCCAGCCCTGCCCCGCTGGAGCCCTTGTTGTCAG	919	QY	1916	ATGGAGTACGACTGAAGCTGTGGGTGTGGCGAGGCTCAGTGCCAGGCTCCACGACGTG	1975
Db	489	-----	488				
QY	920	AAGATGCTCTTGGCCCTTGAGGTCAGCTACGTTGCTAGCATGAGTGTCTGAGCGCCCG	979	Db	1375	ATGGAAATATGACTGAAGATGTGGGTGTGGCGAGAGCCCTACACCTGTATTACATATCTGTG	1434
Db	489	-----	488				
QY	980	GAGACCTTCCCTCTCTTCCGACCGTCCAGCGACCGTGTGAGCTGAGCGCCGCGC	1039	QY	1976	GGCAGGTTTCAACGGCAGCCCTCAGGACAGAGCGCTGAAGATCCGCTGGCAGACAGTCTGAC	2035
Db	532	GAAACGTTTCCATCTCTTCCGACAGTGCACAGTGCAGTGCAGCGGTGAGCTGCAGGAGTT	591	Db	1435	GGCACTTCAACGGCACCTTTCAGCTGCAGAGTCTAAAAATGTACTGGC	1483
QY	1040	GCGGAGCTGTGTCAGGAGTTGCGCTGGAATCGGTGGCGCCCTGGCGACGCGACGAG	1099	QY	2036	AAACAGGTGAGGTGAGGTTGGGTGTCCAGGCGTCCCGTGTGAGTGGAGCCCGCGGAGGGC	2095
Db	592	GTGACTCTGTGTCAGAACTTCAGCTGGAACCTGGGTGGCGCCCTTAGGGAGTGATGATGAC	651	Db	1484	-----	1483
QY	1100	TACGGCCGGCAGGCGCTGAGCATCTTCTCGGCCCTGGCCGCGGACAGCGGCATCTGCATC	1159	QY	2156	GACCCGAGCCCTGTGCGCAGAAAGCCCGTGTCCCGTGTCTCGCGGCAAGTCCAGAGAGGCC	2215
Db	652	TATGGCCGGGAGGTCAGCATCTTTCTAGTCTGGCCAAATGCAGAGTATCTGCATC	711	Db	1484	-----	1534
QY	1160	GCGCAGAGGCGCTGTGCGCTGCCGCTGCCGATGACTCGCGGTGGGGAAGTGCAG	1219	QY	2216	AGTGTGCGCGGTCAAGGGGTTCCACTCTCTGCTGTACGACTGTGTGGACTGCGAGCGG	2275
Db	712	GCACATGAGGCGCTGTGCGCCACAACTGACACTAGTGGCCCAAGTTGGCAAGTGTCTG	771	Db	1535	AGGTTCCCGGAGTAAAGGGCTTTCAATCTCTGCTGTATGACTGCTGTGAGCTGCAAGGCGG	1594
QY	1220	GAGCTCTCTGACAGAGTGAACACAGAGCAGCGTGCAGTGTGTCTGTCTGCTCGCTG	1279	QY	2276	GCAGCTACCGGCAAAACCCAGGTGAGCGCCCTTCCCGGAGCGGGGTGGGAACGCGAGC	2335
Db	772	GATGTCTAGCCCAAGTGAACCAAGTAAAGTACAAAGTGGTGTGTCTGCTCTGCC	831	Db	1595	GCAGCTACCGGAAGCATCCAGAT	1617
QY	1280	CAGCGCCCGCAGCCCTTTCAACTACAGCATCAGCAGCAGGCTCTCGCCCAAGTGTGG	1339	QY	2336	AGGGAGGGTCTCTGCCAAGTCTCTGACTCTGAGACAGAGCCACAGGGTACAAGACGAAC	2395
Db	832	CGTGTCTCTACTCTCTCTTTTGTAGTTACAGCATCCATCATGGCCCTCTCACCAAGTATGG	891	Db	1618	-----	1617
QY	1340	GTGGCAGCAGGCGCTGTGCTGACTCTGACTGTATGGGTGCGCCGATGGCCAG	1399	QY	2396	ACCCAGCGCCCTTCTCTCTCTCACAGACGACATGCGCTGACACTTTTGTGGCCAGAGATG	2455
Db	892	GTGGCAGTGAAGTCTTGGGCTGACATCTGACTGTCTGATGACATCTTCCAAATATTGCCGT	951	Db	1618	-----	1648
QY	1400	ATGGGACGCTGTGCTTCTCTCCAGAGGGGTGCCAGCTGACAGAGTTTCCCGCCAGTAC	1459	QY	2456	AGTGGTCCCGGAGCGAAGCAGACAGTCTTCCGCGCAGGCTCTCGGTTCTCGCATGGG	2515
Db	952	GTGGGCACTGTCTTGGGTTTTTGCAGCGGGTGGCCCTACTGCTGAATTTTCCCATAT	1011	Db	1649	AGTGGTCCCGGAGAAAGACAGACGCTGCTTACTCGCAGCCCAAGTTTCTGGCTTGGG	1708
QY	1460	GTGAAGACGACCTGTGGCCCTGGGCAACGACCCGGCTTCTGCTGTGCGCTGGGGAGAGG	1519	QY	2516	GCAGCGCGGTGTGCTGCTGCTCTCTGCTGTGAGCCCTGGGCGCTGGGCGCTTGTGTGCTG	2575
Db	1012	GTGAGACTCACCTTGGCCCTGGCGCTGAGCCAGCATTTCTGTGCTCACTG	1068	Db	1709	GGAGGCGAGTTGCTGTCTCACTCTCTGCTGTCTTTGCTGGTGTCTGCGTCTAGCACTGG	1768
QY	1520	GAGCAGGCTGTGGAGGAGGAGTGTGGGCGCAGCGCTGCCGAGTGTGACTGCATCAGC	1579	QY	2576	CTGCTTTGGGGCTGTTTCTGTTCACTGAGGACAGCCCACTGGTTTCAAGCCCTCGGGGGGGC	2635
Db	1069	GAGTTGGATCTGGAGGAACATGTGATGGGGCAACGCTGTCCACAGTGTGAGCATCATG	1128	Db	1769	CTGCTCTGGGGCTCTCTGTCCACACTGGGACAGCCCTCTTGTCCAGGCCCTCAGGCGGCT	1828
QY	1580	C-----	1615	QY	2636	CCCTGGCGCTGTTTGGCGCTGGTGTGGCGCTGTGCTGCTGAGGCTCTCTCTGTCTTCC	2695
Db	1129	CTGCAGAACCTATCATCTGGGCTGTTCAGAACCTATCAGCTGGCAATTTGCACCACAA	1188	Db	1829	CACAGTTCTGCTTTGGCTGATCTGCGCTAGGCTCTTCTGCTCAGTGTCTCTCTGTCTCC	1888
QY	1616	ACGTTCTCTGTACGAGCTGTGTATAGCGTGGCCCGAGGCGCTGTGCAACACTTTCAG	1675	QY	2696	CTGGCAGCCAGCCCTGCGGATGCTGCGCCAGCAGCCCTTGTCCACCTCCCGTCA	2755
Db	1189	ATATTTGCAACCTATGAGCTGTGTACAGTGTGGCTCAAGCCCTTCAACACCCCTACAG	1248	Db	1889	CAGACCGGCCAAGCTCTGCCAGTGTCTTGCACAAACCAATGGCTCACCTCCCTCTCA	1948
QY	1676	TGMAACCCCTCAGGCTGCGCGCGCAGGACCCCGTGAAGCCCTGGCAGGTGAGCCCGGA	1735	QY	2756	CGGGCTGCTGTAGCACACTCTTCTGACGCGCGGAGATCTTCTGTGGAGTCAAGTCTG	2815
Db	1249	TGCAATGTCTCACAATGCCAGTATCAGAAACATGTTCTACCCCTG	1292	Db	1949	CAGGCTGCTGAGCACACTCTTCTGCAAGCAGCTGAGACCTTTGTGGAGTCTGAGCTGC	2008
QY	1736	GATGGGGTGTGCTCTCTGTGATGTGCCAGGCCACAGGACGCGCCACCGCCTGA	1795	QY	2816	CTGTAGCTGGGACAGACCGGCTGAGTGGCTGCTGGGGGGCGCTGGGCTGGTGTGG	2875
Db	1293	-----	1292	Db	2009	CACGTAGCTGGGCAAACTGGCTATGACGTACCTTTCGGGGACTCTGGGCTGGCTAGTGG	2068
QY	1796	GCTGGAGGTGGCTGGCGGCTCAGCCCGTCCCGCGCGGAGCTCTCGGAGAACATGTAC	1855	QY	2876	TGCTGTGGCCATGCTGTGTGAGGTGCGCACTGTGCACTGTGACTCTGTGTGCTTCCCGC	2935
Db	1293	-----	1314	Db	2069	TACTGTGGCCACTTTTGTGGAGGACGACATATGTGCTGTGTTTGTGACCGCTTTCACAC	2128
QY	1856	AACCTGACCTTCCAGTGGGGGGCTGCCGCTGCGGTTGACAGACGCGGAAACGTGGAC	1915	QY	2936	CGGAGTGTGTACGGAATGGCAATGTGCCCCACGAGAGGGCGCTGGTGTGACCTGCGGCACAC	2995

Db	1249	TGCAATGTCATCATTTGCCATGTATCAGAAACATGTTCTACCCGTG	1292
Qy	1736	GATGGGGGTGTGCTGTCTCTGCAATGTGCCAGGGCCACAGGCACGGCCACACCGCTGA	1795
Db	1293	-----	1292
Qy	1796	GCTGAGTGGCTTGGCGGCTCAGCCCCGTCCCCCGCCCGCAGCTCTCTGGAGAACATGTATC	1855
Db	1293	-----GCAGCTCTCTGGAGAACATGTATC	1314
Qy	1856	AACCTGACCTTCCACGTGGCGGGCTGCCGCTCGGTTCCGACAGACGCGGAAACGTGGAC	1915
Db	1315	AATATGAGTTTTTCATGCTCGAGACTTGAACATACAGTTTGTATGTCTGAAGGGAATGTAGAC	1374
Qy	1916	ATGGAGTACACCTGAAGCTGTGGGTGTGGCAGGGCTCAGTGCCTCCAGGCTCCACGACGTG	1975
Db	1375	ATGGAATATGACCTGAAGATGTGGGTGTGGCAGAGCCCTACACCTGTATTATACATCTGTG	1434
Qy	1976	GGCAGGTTCAACGGCAGCCTCAGGAACAGAGCGCCTGAAGATCGGCTGGCACAGCTGTAC	2035
Db	1435	GGCACCTTCAACGGCACCCCTTCAGCTGTGCAGCAGTCTTAAATGTACTGGC	1483
Qy	2036	AACCAGTGAAGTGAAGGTGGGTGTGCCAGGCGTCCCGTGGTAGTCCCGCGGCAGGGC	2095
Db	1484	-----	1483
Qy	2096	GCAGCTGGGGTGGGGGCGTTCCAGTCTCCCGTGGGCATGCCAGCCGAGCAGAGCCA	2155
Db	1484	-----	1483
Qy	2156	GACCCAGGCCTGTGCGCAGAAAGCCCGTGTCCGCGTCTCGCGGCAGTGCAGGAGGGCC	2215
Db	1484	-----CAGGCAACAGGTGCCAGTCTCCCGAGTGTCCCGCCAGTGCAGAGATGGCC	1534
Qy	2216	AGTGTCCCGGTTCAAGGGTTCCACTCTGTGCTTACGACTGTGTGGACTGTGGACGCGG	2275
Db	1535	AGGTTCCCGCAGTAAAGGGCTTTCAATCTCTGTGCTATGACTGCGTGGACTGCAAGCGG	1594
Qy	2276	GCAGCTACCGGCAAAACCCAGGTGAGCGGCTTCCCGGCAGGCGGGGTGGGAACGACG	2335
Db	1595	GCAGCTACCGGAAGCATCCAGAT	1617
Qy	2336	AGGGAGGTTCTTGCCAAAGTCTGTAGACTGTGAGACACAGAGCCCAAGGGTACAAGACGA	2395
Db	1618	-----	1617
Qy	2396	ACCCAGGGCCCTTCTCCTCTCTCAGACGACATCGCCTGCACCTTTTGTGGCCAGGATG	2455
Db	1618	-----GACTTCACTCTACTCCATGTATCCATGTAAACGAGACC	1648
Qy	2456	AGTGTCCCGGAGCGAAGCACACGCTGTCTCCGCGCAGGTCTCGGTTCTTGCCATGGG	2515
Db	1649	AGTGTCCCCAGAGAAAGCACAGCCTGTCTTACTCGAGGCCAAGTTTCTGCTTGGG	1708
Qy	2516	GCAGCGGCTGTGCTGCTGCTCTGCTGTGTGAGCCGTGGCGCTGGGCTTGTGCTGG	2575
Db	1709	GGGAGCCAGTTGTGTCTCACTCTCTGCTGTCTTTGSCCTGGTGTGGTCTAGCACTGG	1768
Qy	2576	CTGTTTGGGGCTTGTGTTTCAACATCGGAGACGCCACTGTGTCAAGCCCTCGGGGGGGC	2635
Db	1769	CTGCTCTGGGGCTCTCTGTCTCAACCATCGGACAGCCCTCTGTGTCAGGCCCTCAGGCGGCT	1828
Qy	2636	CCCTGGGCTCTTTGGGCTGTGTGCTGGGCTGTGTGCTCGCTCAGCGTCTCTCTGTTC	2695
Db	1829	CACAGTTCTGCTTTGGGCTGATCTGCTTAGGCTCTTCTGCTCAGTGTCTTCTGTTC	1888
Qy	2696	CTGGCCAGCCAGCCCTGCCGATGCTCTGGGCCACAGACCCCTGTGCCACTCCCCGTCA	2755
Db	1889	CAGGACGGCCAAAGCTCTGCCAGCTGCCTTGCACAAACAAATGGCTCACTCCTCTCA	1948
Qy	2756	CGGGCTCCCTGAGACACTCTTCTGTGAGGCGGCGGAGATCTTCGTGGAGTCAGAACTGC	2815
Db	1949	CAGGCTGCTTGAGCACACTCTTCTCGAAGCAGCTGAGACCTTTGTGGAGTCTGAGCTGC	2008

RESULT 13

RESULTS 13
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: Sequence 8 Application US/10725475

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: GENERAL INFORMATION:

; GENERAL INFORMATION:
APPLICANT: ZOLJEP MARK

APPLICANT: ZOLLER, MARK

APPLICANT: LI, XIAODONG

APPLICANT: STASZEWSKI, LENA

; APPLICANT: O'CONNELL, JAMES J.

; APPLICANT: ZOZULYA, S.

APPLICANT: ADLER, JON

APPLICANT: XU, HONG

APPLICANT: ECHEVERRI, FERNANDO

TITLE OF INVENTION: TIR HETERO-OLIGOMERIC TASTE RECEPTORS AND CELL L

TITLE OF INVENTION: THAT EXPRESS SAID RECEPTORS AND U

1. TITLE OF INVENTION: IDENTIFICATION

FILE REFERENCE: 078003-0291566

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; PRIOR APPLICATION NUMBER: 60

PRIOR FILING DATE: 2001-06-26

; PRIOR APPLICATION NUMBER: 60

PRIOR FILING DATE: 2001-07-13

PRIOR APPLICATION NUMBER: 60

.. PRIOR FILING DATE: 2001-08-08

;; PRIOR FILING DATE: 2001-08-0

; PRIOR APPLICATION NUMBER: 60/331,771
 : PRIOR FILING DATE: 2001-11-21

; PRIOR FILING DATE: 2001-11-2
 ; PRIOR APPLICATION NUMBER: 60

;; PRIOR APPLICATION NUMBER: 60/335,412
: PRIOR FILING DATE: 2001-12-14

; PRIOR FILING DATE: 2001-12-1
 ; PRIOR APPLICATION NUMBER: 60

PRIOR APPLICATION NUMBER: 60/312,090

; PRIOR FILING DATE: 2002-04-15
PUBLICATION NUMBER: 60/3

; PRIOR APPLICATION NUMBER: 60 3

; PRIOR FILING DATE: 2002-04-2

; SEQ ID NO 8
; LENGTH: 2526
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-725-475-8

Query Match 4.1%; Score 147; DB 6; Length 2526;
Best Local Similarity 47.5%; Pred. No. 4.2e-16;
Matches 435; Conservative 0; Mismatches 480; Indels 0; Gaps 0;

QY	2399	CAGCGCCCTTCCTCTCTCACAGACGACATCGCCTGCACCTTTTGTGGCCAGGATGAGT	2458
DB	1571	CTGGGACCTTCTCAACAAGATGACCTCTACAGATGCCAGCTTGTGGGAAGAAGAGT	1630
QY	2459	GGTCCCCGGAGGACACACGCTGCTTCCCGCCAGAGTCTCGGTTCCTGGCATGGGGG	2518
DB	1631	GGGACCTGAGGGAAGCCAGACCTGCTTCCCGCCAGCTGTGTGTGTTTGGCTTTCGCTG	1690
QY	2519	AGCCGGCTGTGCTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG	2578
DB	1691	AGCACACCTCTTGGGTGCTGTGGCAGCTAACACGCTGCTGCTGCTGCTGCTGCTGCTG	1750
QY	2579	CTTTGGGGCTGTTGCTTACCACTCGGACAGCCCACTGGTTCAGGCTCGGGGGGGCCCC	2638
DB	1751	CTGCTGGCTGTTGGCTGGACCTAGACACCCCTGTGTGAGGTACAGAGGGGGGGCCCC	1810
QY	2639	TGGCCTGCTTTGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG	2698
DB	1811	TGTGCTTTCTTATGTGGGCTCCCTGGCAGCAGGTAGTGGCAGCCTCTATGGCTTCTTTG	1870
QY	2699	GCAGCCAGCCCTGCGCATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG	2758
DB	1871	GGGAACCCACAAGGCTGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG	1930
QY	2759	GCTGCTGAGCACACTCTTCTCTGAGGCGCGGAGATCTCTGGAGTCAGAACTGCCTC	2818
DB	1931	TCCTTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG	1990
QY	2819	TGAGCTGGGACAGACCGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG	2878
DB	1991	CCAAGTACCTTACATTTCTACCAAGATGACCTCTACAGATGCCAGCTTGTGGGAAGA	2050
QY	2879	TGCTGGCCATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG	2938
DB	2051	TGATCAGCTCAGCGGCCAGCTGCTTACTGTCTAACTTGGCTGGTGGTGGTGGTGGT	2110
QY	2939	AGGTGGTACCGACTGGACATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG	2998
DB	2111	TGCTGCTAGGGAATACAGCGCTTCCCTCATCTGCTGCTGCTGCTGCTGCTGCTGCTG	2170
QY	2999	CCTGGGTGAGCTTCGGCTTAGCGCAAGCCAAATGCCACGCTGGCTTTCTGCTTCC	3058
DB	2171	ACTCCCTGGGCTTCTACTGCGCTTCTCTCAAAATGGCTCCTCTCCATCAGTGGCTT	2230
QY	3059	TGGGCACTTCTGCTGGAGGAGCGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG	3118
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QY	3119	TTGCCATGCTGCGCTACTTCACTACCTGGGTCTCTTTGTGCGCCCTCTGCGCAATGTG	3178
DB	2291	TCAGCTGCTCTTCAACTTGTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG	2350
QY	3179	AGGTGGTCTCAAGGCGCGCTGCAAGATGGGCGCCCTCTGCTGCTGCTGCTGCTGCTG	3238
DB	2351	ACGGCAAGTACCTGCTGCGGCGCAACATGATGGCTGGGCTGAGCAGCCTGAGCAGCG	2410
QY	3239	TGGCTGCTTCCACTGCGGAGGTGTACTGCTCATGCGGAGCCAGGCTCAACACCC	3298
DB	2411	TGGGTGGGTATTTTGTGCTAAAGTGTACGTATCTCTGCGCGCCAGACCTCAACAG	2470
QY	3299	CCGAGTCTTCTCTGG 3313	
DB	2471	CAGAGCACTTCCAGG 2485	

RESULT 14

US-11-050-804-1
; Sequence 1, Application US/11050804
; Publication No. US20050287517A1
; GENERAL INFORMATION:

; APPLICANT: ADLER, JON ELLIOT
; APPLICANT: LI, XIADONG
; APPLICANT: STAZEWski, LENA
; APPLICANT: XU, HONG
; APPLICANT: EHEVERRI, FERNANDO
; TITLE OF INVENTION: TIR HETERO-OLIGOMERIC TASTE RECEPTORS
; FILE REFERENCE: T1530-0006
; CURRENT APPLICATION NUMBER: US/11/050,804
; CURRENT FILING DATE: 2005-02-07
; PRIOR APPLICATION NUMBER: 09/897,427
; PRIOR FILING DATE: 2001-07-03
; PRIOR APPLICATION NUMBER: 60/284,547
; PRIOR FILING DATE: 2001-04-19
; PRIOR APPLICATION NUMBER: 60/300,434
; PRIOR FILING DATE: 2001-06-26
; NUMBER OF SEQ ID NOS: 10
; SOFTWARE: PatentIn Ver. 3.3
; SEQ ID NO 1
; LENGTH: 2526
; TYPE: DNA
; ORGANISM: Homo sapiens
US-11-050-804-1

Query Match 4.1%; Score 147; DB 11; Length 2526;
Best Local Similarity 47.5%; Pred. No. 4.2e-16;
Matches 435; Conservative 0; Mismatches 480; Indels 0; Gaps 0;

QY	2399	CAGCGCCCTTCCTCTCTCACAGACGACATGCGCTGCACCTTTTGTGGCCAGGATGAGT	2458
DB	1571	CTGGGACCTTCTCAACAAGATGACCTCTACAGATGCCAGCTTGTGGGAAGAAGAGT	1630
QY	2459	GGTCCCCGGAGGACACACGCTGCTTCCCGCCAGGCTCTCGGTTCCTGGCATGGGGG	2518
DB	1631	GGGACCTGAGGGAAGCCAGACCTGCTTCCCGCCAGCTGTGTGTGTTTGGCTTTCGCTG	1690
QY	2519	AGCCGGCTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG	2578
DB	1691	AGCACACCTTGGGTGCTGCTGCGAGTAACACGCTGCTGCTGCTGCTGCTGCTGCTG	1750
QY	2579	CTTTGGGGCTGTTGCTTCAACATCGGGAAGCCCACTGCTTTCAGGCTCGGGGGGGCCCC	2638
DB	1751	CTGCTGGGCTGTTTGGCTGGCACCTTAGACACCCCTGTGTGAGGTACAGAGGGGGGGCC	1810
QY	2639	TGGCCTGCTTTGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG	2698
DB	1811	TGTGCTTTCTTATGTGGGCTCCCTGGCAGCAGGTAGTGGCAGCCTCTATGGCTTCTTTG	1870
QY	2699	GCAGCCAGCCCTGCGCATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG	2758
DB	1871	GGGAACCCACAAGGCTGGGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG	1930
QY	2759	GCTGCTGAGCACACTCTTCTCTGAGGCGCGCAGATCTTGTGGAGTCAGAACTGCCTC	2818
DB	1931	TCCTTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG	1990
QY	2819	TGAGCTGGGACAGACCGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG	2878
DB	1991	CCAAGTACCTTACATTTCTACCAAGATGACCTCTACAGATGCCAGCTTGTGGGAAGA	2050
QY	2879	TGCTGGCCATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG	2938
DB	2051	TGATCAGCTCAGCGGCCAGCTGCTTACTGTCTAACTTGGCTGGTGGTGGTGGTGGT	2110
QY	2939	AGGTGGTACCGACTGGACATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG	2998
DB	2111	TGCTGCTAGGGAATACAGCGCTTCCCTCATCTGCTGCTGCTGCTGCTGCTGCTGCTG	2170

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OM protein - protein search, using sw model

Run on: February 11, 2006, 23:10:27 ; Search time 18 Seconds
(without alignments)
611.656 Million cell updates/sec

Title: US-10-035-045-21
Perfect score: 4443
Sequence: 1 MGPRAKTICSLFLLWLAE.....ERNTPAFNSMIQGYMRRD 839

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 97014 seqs, 13122538 residues

Total number of hits satisfying chosen parameters: 97014

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Published Applications AA New:
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2: /cgn2_6/prodata/1/pubpaa/US06_NEW_PUB.pep:
3: /cgn2_6/prodata/1/pubpaa/US07_NEW_PUB.pep:
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pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	4443	100.0	839	6	US-10-725-475-6
2	4443	100.0	839	7	US-11-050-804-4
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4	3231	72.7	843	6	US-10-725-475-17
5	3231	72.7	843	6	US-10-645-441-8
6	3179	71.6	843	6	US-10-645-441-1
7	1456.5	32.8	840	6	US-10-725-475-16
8	1456.5	32.8	840	6	US-10-645-441-2
9	1440.5	32.4	842	6	US-10-725-475-5
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12	1267.5	28.5	777	6	US-10-725-475-19
13	1074.5	24.2	867	6	US-10-645-441-25
14	1045.5	23.5	858	6	US-10-725-475-4
15	1045.5	23.5	858	6	US-10-841-129-6
16	1038.5	23.4	928	6	US-10-841-129-4
17	1033.5	23.3	928	6	US-10-645-441-20
18	1026.5	23.1	858	6	US-10-645-441-18
19	1025.5	23.1	858	6	US-10-725-475-7
20	1017.5	22.9	852	6	US-10-645-441-15
21	1014.5	22.8	852	6	US-11-050-804-6
22	1014.5	22.8	858	6	US-10-645-441-23
23	1014.5	22.8	858	6	US-10-841-129-2
24	988.5	22.2	926	6	US-10-877-346-52
25	720.5	16.2	879	6	US-10-877-346-53

26	720.5	16.2	879	6	US-10-877-346-54
27	720.5	16.2	879	6	US-10-877-346-17
28	714.5	16.1	879	6	US-11-094-519A-41
29	703.5	15.8	865	7	US-10-725-475-18
30	649.5	14.6	845	6	US-10-725-475-13
31	442	9.9	242	6	US-10-918-857-8
32	402	9.0	497	6	US-10-918-857-4
33	402	9.0	790	6	US-10-918-857-2
34	355	8.0	425	6	US-10-918-857-6
35	355	8.0	718	6	US-10-877-346-85
36	324	7.3	256	6	US-10-877-346-84
37	316.5	7.1	402	6	US-10-725-475-15
38	251	5.6	236	6	US-10-725-475-12
39	237.5	5.3	165	6	US-10-725-475-14
40	218.5	4.9	137	6	US-11-127-877-40
41	181	4.1	844	7	US-11-132-285-40
42	119.5	2.7	1001	7	US-10-131-828A-38
43	113.5	2.6	1013	6	US-11-147-047-46
44	112	2.5	845	7	US-10-995-561-712
45	106.5	2.4	359	6	

ALIGNMENTS

RESULT 1
US-10-725-475-6
; Sequence 6, Application US/10725475
; Publication No. US20060014208A1
; GENERAL INFORMATION:
; APPLICANT: ZOLLER, MARK
; APPLICANT: LI, XIAODONG
; APPLICANT: STASZEWSKI, LENA
; APPLICANT: O'CONNELL, SHAWN
; APPLICANT: ZOZULYA, SERGEY
; APPLICANT: ADLER, JON
; APPLICANT: XU, HONG
; APPLICANT: ECHEVERRI, FERNANDO
; TITLE OF INVENTION: T1R HETERO-OLIGOMERIC TASTE RECEPTORS AND CELL LINES
; TITLE OF INVENTION: THAT EXPRESS SAID RECEPTORS AND USE THEREOF FOR
; TITLE OF INVENTION: IDENTIFICATION OF TASTE COMPOUNDS
; FILE REFERENCE: 078003-0291566
; CURRENT APPLICATION NUMBER: US/10/725,475
; CURRENT FILING DATE: 2003-12-03
; PRIOR APPLICATION NUMBER: 60/300,434
; PRIOR FILING DATE: 2001-06-26
; PRIOR APPLICATION NUMBER: 60/304,749
; PRIOR FILING DATE: 2001-07-13
; PRIOR APPLICATION NUMBER: 60/310,493
; PRIOR FILING DATE: 2001-08-08
; PRIOR APPLICATION NUMBER: 60/331,771
; PRIOR FILING DATE: 2001-11-21
; PRIOR APPLICATION NUMBER: 60/339,472
; PRIOR FILING DATE: 2001-12-14
; PRIOR APPLICATION NUMBER: 60/372,090
; PRIOR FILING DATE: 2002-04-15
; PRIOR APPLICATION NUMBER: 60/374,143
; PRIOR FILING DATE: 2002-04-22
; NUMBER OF SEQ ID NOS: 19
; SOFTWARE: Patent in Ver. 2.1
; SEQ ID NO 6
; LENGTH: 839
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-725-475-6

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Best Local Similarity 100.0%; Pred. No. 0;
Matches 839; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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Db 1 MGPRAKTICSLFLLWLAEPAENSDFYLPDGYLLGLFSLHANMKGIIVHLNFIQVPMCK 60

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QY 61 EYEVKVIQYNLMQAMRFAVEEINNDSSLLPGVLLGYEIVDVCIYISNNVQPVLYFLAHEDN 120
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QY 121 LLPIQEDYSNYSRVVAVIGPDNSSESVMTVANFLSLFLLPQITYSAISDELARDKRVFPAL 180
Db 121 LLPIQEDYSNYSRVVAVIGPDNSSESVMTVANFLSLFLLPQITYSAISDELARDKRVFPAL 180
QY 181 LRTTPSADHVEAMVQLMLHFRWNMIIVLVSSDTYGRDNGQLLGERVARRDICIQAFOETL 240
Db 181 LRTTPSADHVEAMVQLMLHFRWNMIIVLVSSDTYGRDNGQLLGERVARRDICIQAFOETL 240
QY 241 PTLQPNQNTSEERQRLVTIIVDKLQOSTARVVVVFSPDLTYLHYFNEVLRQNFTGAVMIA 300
Db 241 PTLQPNQNTSEERQRLVTIIVDKLQOSTARVVVVFSPDLTYLHYFNEVLRQNFTGAVMIA 300
QY 301 SESWAIDPVLHNLTELGHGLTFLGITIQSVPFPGSEPREWGQAGPPPLSRTSOSYTCN 360
Db 301 SESWAIDPVLHNLTELGHGLTFLGITIQSVPFPGSEPREWGQAGPPPLSRTSOSYTCN 360
QY 361 QECNCLNATLSFNTILRLSGERVVYSVAYVAHAHLSLLGCDKSTCKRVVYPMQL 420
Db 361 QECNCLNATLSFNTILRLSGERVVYSVAYVAHAHLSLLGCDKSTCKRVVYPMQL 420
QY 421 LEEIKWVNFLLDHOIFPDQGDVALHLEIVQWQDRSQNPQSVASYYPQLRQKNQD 480
Db 421 LEEIKWVNFLLDHOIFPDQGDVALHLEIVQWQDRSQNPQSVASYYPQLRQKNQD 480
QY 481 ISWHTVNNITPMSCKSKCQSQKKPVGIIHVCCPECIDCLPGTFLNHTEDYEYEQACP 540
Db 481 ISWHTVNNITPMSCKSKCQSQKKPVGIIHVCCPECIDCLPGTFLNHTEDYEYEQACP 540
QY 541 NEWSQSETSCFKRQLVFLWEHEAPTIIVALLAALGFLSTLAILVIFWRHFQTPIVRSAG 600
Db 541 NEWSQSETSCFKRQLVFLWEHEAPTIIVALLAALGFLSTLAILVIFWRHFQTPIVRSAG 600
QY 601 GPMCFMLTLLLVAVMVVVPVGGPKVSTCLCRQALFPLCFTICISCIARSFQIVCAFK 660
Db 601 GPMCFMLTLLLVAVMVVVPVGGPKVSTCLCRQALFPLCFTICISCIARSFQIVCAFK 660
QY 661 MASRFPRAYSYWRVYQGPVSMAFITVLKMWIVVIGMLATGLSPTRTDPDDPKITIVSC 720
Db 661 MASRFPRAYSYWRVYQGPVSMAFITVLKMWIVVIGMLATGLSPTRTDPDDPKITIVSC 720
QY 721 NPNYRNSLLFNTSLDLLSVVGFSPAYMGKELPTNYNEAKFTILSMYFTSSVSLCTFM 780
Db 721 NPNYRNSLLFNTSLDLLSVVGFSPAYMGKELPTNYNEAKFTILSMYFTSSVSLCTFM 780
QY 781 SAYSGVLVTIVDLLVTVLNLLAISLGYPGPKCYMILFYPERNTPAYFNSMIQGYTMRD 839
Db 781 SAYSGVLVTIVDLLVTVLNLLAISLGYPGPKCYMILFYPERNTPAYFNSMIQGYTMRD 839
```

RESULT 2

```
US-11-050-804-4
; Sequence 4, Application US/11050804
; Publication No. US20050287517A1
; GENERAL INFORMATION:
; APPLICANT: ADLER, JON ELLIOT
; APPLICANT: LI, XIADONG
; APPLICANT: STAZESKI, LENA
; APPLICANT: XU, HONG
; APPLICANT: EHEVERRI, FERNANDO
; TITLE OF INVENTION: T1R HETERO-OLIGOMERIC TASTE RECEPTORS
; FILE REFERENCE: T1530-00006
; CURRENT APPLICATION NUMBER: US/11/050,804
; PRIOR FILING DATE: 2005-02-07
; PRIOR APPLICATION NUMBER: 09/897,427
; PRIOR FILING DATE: 2001-07-03
; PRIOR APPLICATION NUMBER: 60/284,547
; PRIOR FILING DATE: 2001-04-19
; PRIOR APPLICATION NUMBER: 60/300,434
```

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; PRIOR FILING DATE: 2001-06-26
; NUMBER OF SEQ ID NOS: 10
; SOFTWARE: PatentIn ver. 3.3
; SEQ ID NO 4
; LENGTH: 839
; TYPE: PRT
; ORGANISM: Homo sapiens
US-11-050-804-4
```

```
Query Match 100.0%; Score 4443; DB 7; Length 839;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 839; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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```
QY 1 MGPRAKTICSLFFLLWLAEPAENSDFYLPDGYLLGGFLSLHANMKGIVHLNFLQVPMCK 60
Db 1 MGPRAKTICSLFFLLWLAEPAENSDFYLPDGYLLGGFLSLHANMKGIVHLNFLQVPMCK 60
QY 61 EYEVKVIQYNLMQAMRFAVEEINNDSSLLPGVLLGYEIVDVCIYISNNVQPVLYFLAHEDN 120
Db 61 EYEVKVIQYNLMQAMRFAVEEINNDSSLLPGVLLGYEIVDVCIYISNNVQPVLYFLAHEDN 120
QY 121 LLPIQEDYSNYSRVVAVIGPDNSSESVMTVANFLSLFLLPQITYSAISDELARDKRVFPAL 180
Db 121 LLPIQEDYSNYSRVVAVIGPDNSSESVMTVANFLSLFLLPQITYSAISDELARDKRVFPAL 180
QY 181 LRTTPSADHVEAMVQLMLHFRWNMIIVLVSSDTYGRDNGQLLGERVARRDICIQAFOETL 240
Db 181 LRTTPSADHVEAMVQLMLHFRWNMIIVLVSSDTYGRDNGQLLGERVARRDICIQAFOETL 240
QY 241 PTLQPNQNTSEERQRLVTIIVDKLQOSTARVVVVFSPDLTYLHYFNEVLRQNFTGAVMIA 300
Db 241 PTLQPNQNTSEERQRLVTIIVDKLQOSTARVVVVFSPDLTYLHYFNEVLRQNFTGAVMIA 300
QY 301 SESWAIDPVLHNLTELGHGLTFLGITIQSVPFPGSEPREWGQAGPPPLSRTSOSYTCN 360
Db 301 SESWAIDPVLHNLTELGHGLTFLGITIQSVPFPGSEPREWGQAGPPPLSRTSOSYTCN 360
QY 361 QECNCLNATLSFNTILRLSGERVVYSVAYVAHAHLSLLGCDKSTCKRVVYPMQL 420
Db 361 QECNCLNATLSFNTILRLSGERVVYSVAYVAHAHLSLLGCDKSTCKRVVYPMQL 420
QY 421 LEEIKWVNFLLDHOIFPDQGDVALHLEIVQWQDRSQNPQSVASYYPQLRQKNQD 480
Db 421 LEEIKWVNFLLDHOIFPDQGDVALHLEIVQWQDRSQNPQSVASYYPQLRQKNQD 480
QY 481 ISWHTVNNITPMSCKSKCQSQKKPVGIIHVCCPECIDCLPGTFLNHTEDYEYEQACP 540
Db 481 ISWHTVNNITPMSCKSKCQSQKKPVGIIHVCCPECIDCLPGTFLNHTEDYEYEQACP 540
QY 541 NEWSQSETSCFKRQLVFLWEHEAPTIIVALLAALGFLSTLAILVIFWRHFQTPIVRSAG 600
Db 541 NEWSQSETSCFKRQLVFLWEHEAPTIIVALLAALGFLSTLAILVIFWRHFQTPIVRSAG 600
QY 601 GPMCFMLTLLLVAVMVVVPVGGPKVSTCLCRQALFPLCFTICISCIARSFQIVCAFK 660
Db 601 GPMCFMLTLLLVAVMVVVPVGGPKVSTCLCRQALFPLCFTICISCIARSFQIVCAFK 660
QY 661 MASRFPRAYSYWRVYQGPVSMAFITVLKMWIVVIGMLATGLSPTRTDPDDPKITIVSC 720
Db 661 MASRFPRAYSYWRVYQGPVSMAFITVLKMWIVVIGMLATGLSPTRTDPDDPKITIVSC 720
QY 721 NPNYRNSLLFNTSLDLLSVVGFSPAYMGKELPTNYNEAKFTILSMYFTSSVSLCTFM 780
Db 721 NPNYRNSLLFNTSLDLLSVVGFSPAYMGKELPTNYNEAKFTILSMYFTSSVSLCTFM 780
QY 781 SAYSGVLVTIVDLLVTVLNLLAISLGYPGPKCYMILFYPERNTPAYFNSMIQGYTMRD 839
Db 781 SAYSGVLVTIVDLLVTVLNLLAISLGYPGPKCYMILFYPERNTPAYFNSMIQGYTMRD 839
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RESULT 3
US-10-645-441-9
; Sequence 9, Application US/10645441
```

```
; Publication No. US20050260599A1
; GENERAL INFORMATION:
; APPLICANT: Zuker, Charles S.
; APPLICANT: Ryba, Nicholas J.P.
; APPLICANT: Nelson, Greg
; APPLICANT: Hoon, Mark A.
; APPLICANT: Chandrasekar, Jayaram
; APPLICANT: Zhang, Yifeng
; APPLICANT: The Regents of the University of California
; APPLICANT: The Government of the United States of America
; APPLICANT: as represented by the Secretary of the
; APPLICANT: Department of Health and Human Services
; TITLE OF INVENTION: Mammalian Sweet Taste Receptors
; FILE REFERENCE: 02307E-120110US
; CURRENT APPLICATION NUMBER: US/10/645,441
; PRIOR FILING DATE: 2003-08-20
; PRIOR APPLICATION NUMBER: US/09/927,315
; PRIOR FILING DATE: 2001-08-10
; PRIOR APPLICATION NUMBER: US 60/302,898
; PRIOR FILING DATE: 2001-07-03
; NUMBER OF SEQ ID NOS: 25
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 9
; LENGTH: 838
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; OTHER INFORMATION: human T1R2 sweet taste receptor
; US-10-645-441-9

Query Match 98.9%; Score 4392.5; DB 6; Length 838;
Best Local Similarity 99.3%; Pred. No. 0;
Matches 833; Conservative 0; Mismatches 5; Indels 1; Gaps 1;

QY 1 MGPRATICSFLFWLWLAEPNSDFYLPDGLGGLFSLHANMKGIHNLFLQVPMCK 60
DB 1 MGPRATICSFLFWLWLAEPNSDFYLPDGLGGLFSLHANMKGIHNLFLQVPMCK 60
QY 61 EYEVKVGYNLMQAMRPAVEEINNDSSLLPGVLLGHIYDVVCYISNNVQVLYFLAHEDN 120
DB 61 EYEVKVGYNLMQAMRPAVEEINNDSSLLPGVLLGHIYDVVCYISNNVQVLYFLAHEDN 120
QY 121 LLPIQEDYSNYSIRVVAVIGPDNSSEVMTVANFLSLFLPQITYSALSDELKVRFPAL 180
DB 121 LLPIQEDYSNYSIRVVAVIGPDNSSEVMTVANFLSLFLPQITYSALSDELKVRFPAL 180
QY 181 LRTTPSADHVEAMVQLMLHFRWNWIIIVLSSDTYGRDNGQLLGERVARRDICIATFQETL 240
DB 181 LRTTPSADHVEAMVQLMLHFRWNWIIIVLSSDTYGRDNGQLLGERVARRDICIATFQETL 240
QY 241 PTLQPNQNMTSERQRLVTIVDKLQOSTARVVVVVSPDLTYLHFFNEVLKQNTGAVWIA 300
DB 241 PTLQPNQNMTSERQRLVTIVDKLQOSTARVVVVVSPDLTYLHFFNEVLKQNTGAVWIA 300
QY 301 SESWADPVLNLTGHLGTFGITITQSPVPIPGFSEFREGWQAGPPPLSRSTSQTCTN 360
DB 301 SESWADPVLNLTGHLGTFGITITQSPVPIPGFSEFREGWQAGPPPLSRSTSQTCTN 360
QY 361 QECNCLNATLSFNTILRLSGERVVYSAVAVAHALSLGCDKSTCTKRVVYPMQL 420
DB 361 QECNCLNATLSFNTILRLSGERVVYSAVAVAHALSLGCDKSTCTKRVVYPMQL 420
QY 421 LEEIWKVNTLLDHOIFPDQGVVALHLEIVQWQDRSQNPFGSVASYPLQRLQNIQD 480
DB 421 LEEIWKVNTLLDHOIFPDQGVVALHLEIVQWQDRSQNPFGSVASYPLQRLQNIQD 480
QY 481 ISWHTVNTIPMNSCSCRCOSQKPKVGHVCCFECIDCLPGTFLNHTDEYECQCPN 540
DB 481 ISWHTVNTIPMNSCSCRCOSQKPKVGHVCCFECIDCLPGTFLNHTDEYECQCPN 540
QY 541 NEWSYQSETSCFKRQLVLEWHEAPTIALLAALGFLSTLAILVIFWRHFQTPIVRSAG 600
DB 541 NEWSYQSETSCFKRQLVLEWHEAPTIALLAALGFLSTLAILVIFWRHFQTPIVRSAG 600

; Publication No. US10645441-7
; Sequence 7, Application US/10645441
; Publication No. US20050260599A1
; GENERAL INFORMATION:
; APPLICANT: Zuker, Charles S.
; APPLICANT: Ryba, Nicholas J.P.
; APPLICANT: Nelson, Greg
; APPLICANT: Hoon, Mark A.
; APPLICANT: Chandrasekar, Jayaram
; APPLICANT: Zhang, Yifeng
; APPLICANT: The Regents of the University of California
; APPLICANT: The Government of the United States of America
; APPLICANT: as represented by the Secretary of the
; APPLICANT: Department of Health and Human Services
; TITLE OF INVENTION: Mammalian Sweet Taste Receptors
; FILE REFERENCE: 02307E-120110US
; CURRENT APPLICATION NUMBER: US/10/645,441
; CURRENT FILING DATE: 2003-08-20
; PRIOR APPLICATION NUMBER: US/09/927,315
; PRIOR FILING DATE: 2001-08-10
; PRIOR APPLICATION NUMBER: US 60/302,898
; PRIOR FILING DATE: 2001-07-03
; NUMBER OF SEQ ID NOS: 25
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 7
; LENGTH: 843
; TYPE: PRT
; ORGANISM: Rattus sp.
; FEATURE:
; OTHER INFORMATION: rat T1R2 sweet taste receptor
; US-10-645-441-7

Query Match 72.7%; Score 3231; DB 6; Length 843;
Best Local Similarity 70.8%; Pred. No. 3.5e-264;
Matches 596; Conservative 109; Mismatches 133; Indels 4; Gaps 2;

QY 1 MGPRATICSFLFWLWLAEPNSDFYLPDGLGGLFSLHANMKGIHNLFLQV 57
DB 1 MGPRATICSFLFWLWLAEPNSDFYLPDGLGGLFSLHANMKGIHNLFLQV 57
QY 58 MCKEYEVKVGYNLMQAMRPAVEEINNDSSLLPGVLLGHIYDVVCYISNNVQVLYFLAH 117
DB 58 MCKEYEVKVGYNLMQAMRPAVEEINNDSSLLPGVLLGHIYDVVCYISNNVQVLYFLAH 117
QY 61 KCNEFTMKVGLYNLMQAMRPAVEEINNCSSLLPGVLLGYEMVDVVCYLSNNHPLGLYFLAQ 120
DB 61 KCNEFTMKVGLYNLMQAMRPAVEEINNCSSLLPGVLLGYEMVDVVCYLSNNHPLGLYFLAQ 120
QY 118 EDNLLPIQEDYSNYSIRVVAVIGPDNSSEVMTVANFLSLFLPQITYSALSDELKVRFP 177
DB 118 EDNLLPIQEDYSNYSIRVVAVIGPDNSSEVMTVANFLSLFLPQITYSALSDELKVRFP 177
QY 121 DDLLPLTKDYSQMPHVVAVIGPDNSSEVMTVANFLSLFLPQITYSALSDELKVRFP 180
DB 121 DDLLPLTKDYSQMPHVVAVIGPDNSSEVMTVANFLSLFLPQITYSALSDELKVRFP 180
QY 178 PALRTTPSADHVEAMVQLMLHFRWNWIIIVLSSDTYGRDNGQLLGERVARRDICIATF 236
DB 178 PALRTTPSADHVEAMVQLMLHFRWNWIIIVLSSDTYGRDNGQLLGERVARRDICIATF 236
QY 181 PSMRLTVPSATHIEAMVQLMWVHFWQNWIIIVLVSDDDYGRNSHLLSRLTKTSIDICIAF 240
DB 181 PSMRLTVPSATHIEAMVQLMWVHFWQNWIIIVLVSDDDYGRNSHLLSRLTKTSIDICIAF 240
QY 237 QETLPTLQPNQNMTSERQRLVTIVDKLQOSTARVVVVVSPDLTYLHFFNEVLKQNTGAV 296
DB 237 QETLPTLQPNQNMTSERQRLVTIVDKLQOSTARVVVVVSPDLTYLHFFNEVLKQNTGAV 296
```


Qy 795 VTVLNLLAISGLGYFGPKCYMILFYPERNTPAYFNSMIQGYTMR 837
:
794 AGLTLLSGGFGSGYFLPKCYVILCRPELNNTTEHFQASIQDYTRR 836
db

RESULT 9

```

US-10-645-441-2
; Sequence 2, Application US/10645441
; Publication No. US20050260599A1
; GENERAL INFORMATION:
; APPLICANT: Ryba, Nicholas S.
; APPLICANT: Zukoer, Charles S.
; APPLICANT: Nelson, Greg
; APPLICANT: Hoon, Mark A.
; APPLICANT: Chandrashekar, Jayaram
; APPLICANT: Zhang, Yifeng
; APPLICANT: The Regents of the University of California
; APPLICANT: The Government of the United States of America
; APPLICANT: as represented by the Secretary of the
; APPLICANT: Department of Health and Human Services
; TITLE OF INVENTION: Mammalian Sweet Taste Receptors
; FILE REFERENCE: 02307E-120110US
; CURRENT APPLICATION NUMBER: US/10/645,441
; CURRENT FILING DATE: 2003-08-20
; PRIOR APPLICATION NUMBER: US/09/927,315
; PRIOR FILING DATE: 2001-08-10
; PRIOR APPLICATION NUMBER: US 60/302,898
; PRIOR FILING DATE: 2001-07-03
; NUMBER OF SEQ ID NOS: 25
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 2
; LENGTH: 842
; TYPE: PRT
; ORGANISM: Mus musculus
; FEATURE:
; OTHER INFORMATION: mouse Tir1 sweet taste receptor
US-10-645-441-2

```

Qy	501	SGQKKPVGHVCCFECIDCLPTEFLNHTDEYECOCAPNNWSQYSETSCFKROLVFLE	566
Db	504	EGHRLVNGSHHCFCMPCBAGTFLN-TSELHTQPCPGTEEWAPGSSACFSRTVEFLG	562
Qy	561	WHEAPTIAVALLAALGFLSTLAILVIP-----WRHFOTPIVRSAGGPMCFMLTLVL	613
Db	563	WHE--PISLVLLAA---NTLLLLLTGTAGLPAWR-LHTPPVRSAGGRLCFMLGLSLVA	615
Qy	614	AYMVVPVYVGPKVSTCLCQALPPLCTTICISIAVRSFQIVCAFKMASRRPRAYSVM	673
Db	616	GSCSLYSEFGKPTVPACLLKQPLFSLGFAFLSCLTIRSFQLVIIKFKSTKVPFFHTWA	675
Qy	674	RYQCPYYSMARITVLKMW--IVWIGMLATGLSPTRTDDPKITIVSCNPNVRSNLLFN	731
Db	676	QNHGAGI--FVIVSSTVHLFLCLTWLMMWTPRTREYQRFPHLVILECTEVMNSVGLVA	732
Qy	732	TSLDLLLSVVCFSFAYMGKELPTNYNAKETTILSMITFYFTSSVSLCTEWSAYSGVLVTIV	791
Db	733	FAHNILLISITFVCSYLGKLEPENYNAKVTLSLLHFFVSWIAFTTMSSIIQGSYLPAV	792
Qy	792	DLLVTVMLLLAISLGYFGPKCYMTILFYPERNTPAYFNMSIQGYTMR	837
h	793	NVIAGIATSGGFSGYELPKCYVILCRPELNNTHEFOASIQDYTRR	833

RESULT 10

RESULT 10
 US-10-725-475-5
 ; Sequence 5, Application US/10725475
 ; Publication No. US20060014208A1
 ; GENERAL INFORMATION:
 ; APPLICANT: ZOLLER, MARK
 ; APPLICANT: LI, XIAODONG
 ; APPLICANT: STASZEWSKI, LENA
 ; APPLICANT: O'CONNELL, SHAWN
 ; APPLICANT: ZOZULYA, SERGEY
 ; APPLICANT: ADLER, JON
 ; APPLICANT: XU, HONG
 ; APPLICANT: ECHEVERRI, FERNANDO
 ; TITLE OF INVENTION: T1R HETERO-OLIGOMERIC TASTE RECEPTORS AND CELL LINES
 ; TITLE OF INVENTION: THAT EXPRESS SAID RECEPTORS AND USE THEREOF FOR
 ; TITLE OF INVENTION: IDENTIFICATION OF TASTE COMPOUNDS
 ; FILE REFERENCE: 078003-0291566
 ; CURRENT APPLICATION NUMBER: US/10725,475
 ; CURRENT FILING DATE: 2003-12-03
 ; PRIOR APPLICATION NUMBER: 60/300,434
 ; PRIOR FILING DATE: 2001-06-26
 ; PRIOR APPLICATION NUMBER: 60/304,749
 ; PRIOR FILING DATE: 2001-07-13
 ; PRIOR APPLICATION NUMBER: 60/310,493
 ; PRIOR FILING DATE: 2001-08-08
 ; PRIOR APPLICATION NUMBER: 60/331,771
 ; PRIOR FILING DATE: 2001-11-21
 ; PRIOR APPLICATION NUMBER: 60/339,472
 ; PRIOR FILING DATE: 2001-12-14
 ; PRIOR APPLICATION NUMBER: 60/372,090
 ; PRIOR FILING DATE: 2002-04-15
 ; PRIOR APPLICATION NUMBER: 60/374,143
 ; PRIOR FILING DATE: 2002-04-22
 ; NUMBER OF SEQ ID NOS: 19
 ; SOFTWARE: PatentIn Ver. 2.1
 ; SEQ ID NO 5
 ; LENGTH: 841
 ; TYPE: PRT
 ; ORGANISM: Homo sapiens
 ; US-10-725-475-5

QY 16 WVL A-EPAENS-DFYLP GDYLLGGLFSLHANMKGI VHLN FLQVPMC-KEYE VKVIGYNL

Db 19 WAFACHSTESSPDFTLPGDYLLAGLPLHSGCLQVHRP--EVTLCDRSCSNEHGYHLF 76
Qy 73 QAMRFAVEEINNDSSLLPGVLLGYEIVDVYISNNVQVLYFLA----HEDNLLPIQEDY 128
Db 77 QAMRLGVEEINNSTALLPNTLGYQLYDVCSANVYATRLVSLPGQHH---IELQDGL 133
Qy 129 SNYSRVAVIGPDNSSEVMTVANFSLFLLPQIYSAISDELKRVFPALLRTPPSAD 188
Db 134 LHYSTVLAVIGPDSTNRAATTAALLSPFLVPMISYAAASSETLSVKRQYPSFLRTPNDK 193
Qy 189 HHVEAMVOLMLHFRNWIIVLVSSDTYGRDNQGLGERVARRDICIATFOETLP-TLQPNQ 247
Db 194 YQVETWVLLQXFGTWTSLVGSDDYQGLGVALENQATGGICIAFKDIMPFAQVGD 253
Qy 248 NMTSEERQLVTIVDKLOQSTARVVVFPDPTLHYHFNVEVLRQNTGAVWIASWAD 307
Db 254 -----ERMQCLMRHLAQAGATVVVFSRRQARVFFESVVLTLNLTKGVVWASEAWALS 306
Qy 308 PVLHNLTELCHLGTFLGITIQSVPPIGSEFREWGPQA---GPPPLSRTSQSYTCNOECD 364
Db 307 RHITGVPGIORIGMWLVGAIOKRAVPGPKAFEEAYARADKKAPRCHKGSWC--SSNQLCR 365
Qy 365 NCLNATLSFNTILRLSGERVVSVYSAVVAHAHALHSLGCDKSTCTKRVVVPWOLLBEI 424
Db 366 EQCAFMAHTMPKLAFAFSSSAYNAVAVAHGLHQLLGCASGACSRGRVVPWOLLEOI 425
Qy 425 WKVNFLLDHQIIFPDQGDVALHLEIVQWMDRSQNPFSQVAS--YYPLQRLKNIQDIS 482
Db 426 HKVHFLHKKDTVAFNDRDPLSSYNI IAWDMNGPKWTFVLGSSTWSPVQLNI-NETKIQ 484
Qy 483 WHTVNTIPMSCKSRQSGOKKPVGIHVCCFECIDCLPGTFLNHTDEYEQACPNE 542
Db 485 WHGKDNQPKSVCSDDCLEGHQRVVTGFHCCFECVPCGAGTFLNKS-DLYRCQPCGKEE 543
Qy 543 WSYQSETSCFKRQLVFEWHEAPTIAVALLAALGFLSTLAILVIFWRHFQTPIVRSAGGP 602
Db 544 WAPESQTCFPTVTVFLALREHTSWVLLAANTLILLGLTAGLFAWHLDTFVRSAGR 603
Qy 603 MCFMLTLLLVAYMVVVPVGPVKYSTCLCQALFPLCTICISCIASVRSFOIVCAFMA 662
Db 604 LCFMLGSLAAGSGSLYGFGEPTRPACLLRQALFALGFTIFLSCLTVRSFQIIIFKFS 663
Qy 663 SRFPAYSWVRYQGPYYSMAFITVLKMWIVVIGMLATGLSTTRTDPDPKTIIVSNP 722
Db 664 TKVPTFYHAWQNHGAGLFVMTISSAQQLLICLTWLVVWVTPLP-AREYQRFPHLVMLECTE 722
Qy 837 R 837
Db 837 R 837

RESULT 11

US-11-050-804-2
; Sequence 2, Application US/11050804
; Publication No. US2005028751A1
; GENERAL INFORMATION:
; APPLICANT: ADLER, JON ELLIOT
; APPLICANT: LI, XIADONG
; APPLICANT: STAZESKI, LENA
; APPLICANT: XU, HONG
; APPLICANT: EHEVERRI, FERNANDO
; TITLE OF INVENTION: T1R HETERO-OLIGOMERIC TASTE RECEPTORS
; FILE REFERENCE: T1530-0006
; CURRENT APPLICATION NUMBER: US/11/050,804
; CURRENT FILING DATE: 2005-02-07

; PRIOR APPLICATION NUMBER: 09/897,427
; PRIOR FILING DATE: 2001-07-03
; PRIOR APPLICATION NUMBER: 60/284,547
; PRIOR FILING DATE: 2001-04-19
; PRIOR APPLICATION NUMBER: 60/300,434
; PRIOR FILING DATE: 2001-06-26
; NUMBER OF SEQ ID NOS: 10
; SOFTWARE: PatentIn Ver. 3.3
; SEQ ID NO 2
; LENGTH: 841
; TYPE: PRT
; ORGANISM: Homo sapiens
US-11-050-804-2

Query Match 30.4%; Score 1351.5; DB 7; Length 841;
Best Local Similarity 37.5%; Pred. No. 7.4e-106;
Matches 315; Conservative 131; Mismatches 354; Indels 41; Gaps 17;

Qy 16 WVLA-EPAENS-DFVLPDGYLLGGLFSLHANKGIVHLNFLQVPMC-KEYEVKVIGYNLM 72
Db 19 WAFACHSTESSPDFTLPGDYLLAGLPLHSGCLQVHRP--EVTLCDRSCSNEHGYHLF 76
Qy 73 QAMRFAVEEINNDSSLLPGVLLGYEIVDVYISNNVQVLYFLA----HEDNLLPIQEDY 128
Db 77 QAMRLGVEEINNSTALLPNTLGYQLYDVCSANVYATRLVSLPGQHH---IELQDGL 133
Qy 129 SNYSRVAVIGPDNSSEVMTVANFSLFLLPQIYSAISDELKRVFPALLRTPPSAD 188
Db 134 LHYSTVLAVIGPDSTNRAATTAALLSPFLVPMISYAAASSETLSVKRQYPSFLRTPNDK 193
Qy 189 HHVEAMVOLMLHFRNWIIVLVSSDTYGRDNQGLGERVARRDICIATFOETLP-TLQPNQ 247
Db 194 YQVETWVLLQXFGTWTSLVGSDDYQGLGVALENQATGGICIAFKDIMPFAQVGD 253
Qy 248 NMTSEERQLVTIVDKLOQSTARVVVFPDPTLHYHFNVEVLRQNTGAVWIASWAD 307
Db 254 -----ERMQCLMRHLAQAGATVVVFSRRQARVFFESVVLTLNLTKGVVWASEAWALS 306
Qy 308 PVLHNLTELCHLGTFLGITIQSVPPIGSEFREWGPQA---GPPPLSRTSQSYTCNOECD 364
Db 307 RHITGVPGIORIGMWLVGAIOKRAVPGPKAFEEAYARADKKAPRCHKGSWC--SSNQLCR 365
Qy 365 NCLNATLSFNTILRLSGERVVSVYSAVVAHAHALHSLGCDKSTCTKRVVVPWOLLBEI 424
Db 366 EQCAFMAHTMPKLAFAFSSSAYNAVAVAHGLHQLLGCASGACSRGRVVPWOLLEOI 425
Qy 425 WKVNFLLDHQIIFPDQGDVALHLEIVQWMDRSQNPFSQVAS--YYPLQRLKNIQDIS 482
Db 426 HKVHFLHKKDTVAFNDRDPLSSYNI IAWDMNGPKWTFVLGSSTWSPVQLNI-NETKIQ 484
Qy 483 WHTVNTIPMSCKSRQSGOKKPVGIHVCCFECIDCLPGTFLNHTDEYEQACPNE 542
Db 485 WHGKDNQPKSVCSDDCLEGHQRVVTGFHCCFECVPCGAGTFLNKS-DLYRCQPCGKEE 543
Qy 543 WSYQSETSCFKRQLVFEWHEAPTIAVALLAALGFLSTLAILVIFWRHFQTPIVRSAGGP 602
Db 544 WAPESQTCFPTVTVFLALREHTSWVLLAANTLILLGLTAGLFAWHLDTFVRSAGR 603
Qy 603 MCFMLTLLLVAYMVVVPVGPVKYSTCLCQALFPLCTICISCIASVRSFOIVCAFMA 662
Db 604 LCFMLGSLAAGSGSLYGFGEPTRPACLLRQALFALGFTIFLSCLTVRSFQIIIFKFS 663
Qy 663 SRFPAYSWVRYQGPYYSMAFITVLKMWIVVIGMLATGLSTTRTDPDPKTIIVSNP 722
Db 664 TKVPTFYHAWQNHGAGLFVMTISSAQQLLICLTWLVVWVTPLP-AREYQRFPHLVMLECTE 722
Qy 723 NYRNSL-----LFNTSLDLLSVVGFSPAYMGKELPTNYNEAKFITLSMTFYFTSSVSL 776
Db 723 T--NSLGFILAPLYNG----LLSISAFACSYLGKDLPENYNEAKCVTFSLLENFVSWIAF 776
Qy 777 CTFMSAYSGVLVTIVDLLVTVNLNLAISLGYFGPKCYMILFYPERNTPAYFNSMIQGYTM 836
Db 777 FTASVYDGKYLPAANMMAGLSLSSGFGYFLPKCYVILCRPDLNSTEHFOASIQDYTR 836

Dd		416	ETKIOWGHKQHVPKSVCSSDCLEGEHQRVVTVFGHHCCFCPCGAGCTFLNKSE-LYRCQP	474
Qy		538	CPNNEWSYOSETSCFKRQQLVFLEWHEAPTIAVALLAALGLSTLAILVIFWRHFQTPIVR	597
Dd		475	CGTEEWAPGSQTCPFRVVFLAREHTSWLLAANTLLLLLLGTAGLFAMHLDTPVVR	534
Qy		598	SAGGPWCFLMLTLLLWAYVWPVYGPPKVSTCLCROALFPLCFITICISCIARSQIVC	657
Dd		535	SAGRLCFLMGLSAAAGSGSLYGFFGEPRPACLLQOALFALGFTIFLSCLTVRSQOLI	594
Qy		658	AFKOMASRFPRAYSVMRYOGPVYSMAFITVLKMVIIVVGIMLATGLSPTRTDDPKITI	717
Dd		595	IFKFXTKVTPTFHAWVNQNHGAGLFMTMISSAAQLLICLTWLWVWTPLP-AREYQRPFHLVM	653
Qy		718	VSCNPNYRNSL-----LFNTSIDLLSVGVFSAYMGKELPTNYNEAKFITILSMTFYFT	771
Dd		654	LECTET--NSLGFIAPLYNG----LLSISAFACS YLGRDLPENYN EAKCVTFSL LFN FV	707
Qy		772	SSVSLCTFMSAYSGLVITVDLVTLNLAIASLGYPGPKCYMILPYPERNTPAYFN SMI	831
Dd		708	SWIAFFTTSVSDGYKLPAANMMAGLSLSSGGGYFLPKCYVILCRPD LN STEHF OASI	767
Qy		832	QGYTMR	837
Dd		768	QDYTRR	773

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RESULT 13
US-10-725-475-19
; Sequence 19, Application US/10725475
; Publication No. US20060014208A1
; GENERAL INFORMATION:
; APPLICANT: ZOLLER, MARK
; APPLICANT: LI, XIAODONG
; APPLICANT: STASZEWSKI, LENA
; APPLICANT: O'CONNELL, SHAWN
; APPLICANT: ZOZULYA, SERGEY
; APPLICANT: ADLER, ION
; APPLICANT: XU, HONG
; APPLICANT: ECHEVERRI, FERNANDO
; TITLE OF INVENTION: T1R HETERO-OLIGOMERIC TASTE RECEPTORS AND CELL LINES
; TITLE OF INVENTION: THAT EXPRESS SAID RECEPTORS AND USE THEREOF FOR
; TITLE OF INVENTION: IDENTIFICATION OF TASTE COMPOUNDS
; FILE REFERENCE: 078003-0291566
; CURRENT APPLICATION NUMBER: US/10725,475
; PRIOR FILING DATE: 2003-12-03
; CURRENT APPLICATION NUMBER: 60/300,434
; PRIOR FILING DATE: 2001-06-26
; PRIOR APPLICATION NUMBER: 60/304,749
; PRIOR FILING DATE: 2001-07-13
; PRIOR APPLICATION NUMBER: 60/310,493
; PRIOR FILING DATE: 2001-08-08
; PRIOR APPLICATION NUMBER: 60/331,771
; PRIOR FILING DATE: 2001-11-21
; PRIOR APPLICATION NUMBER: 60/339,472
; PRIOR FILING DATE: 2001-12-14
; PRIOR APPLICATION NUMBER: 60/372,090
; PRIOR FILING DATE: 2002-04-15
; PRIOR APPLICATION NUMBER: 60/374,143
; PRIOR FILING DATE: 2002-04-22
; NUMBER OF SEQ ID NOS: 19
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 19
; LENGTH: 867
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-725-475-19

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Query Match	24.2%	Score 1074.5;	DB 6;	Length 867;
Best Local Similarity	31.3%;	Pred. No. 1.7e-82;		
Matches 278;	Conservative 160;	Mismatches 342;	Indels 107;	Gaps 27
16	WTARPANSDYLP-----GDYLLGGLFSLHANKMGI'VHLNFLQVPMCKEYEVKVG	68		

```

QY      837 R 837
      |
DB      837 R 837

RESULT 12
US-10-645-441-3
; Sequence 3, Application US/10645441
; Publication No. US20050260599A1
; GENERAL INFORMATION:
; APPLICANT: Zuker, Charles S.
; APPLICANT: Ryba, Nicholas J.P.
; APPLICANT: Nelson, Greg
; APPLICANT: Hoon, Mark A.
; APPLICANT: Chandrashekar, Jayaram
; APPLICANT: Zhang, Yifeng
; APPLICANT: The Regents of the University of California
; APPLICANT: The Government of the United States of America
; APPLICANT: as represented by the Secretary of the
; APPLICANT: Department of Health and Human Services
; TITLE OF INVENTION: Mammalian Sweet Taste Receptors
; FILE REFERENCE: 02307E-120110US
; CURRENT APPLICATION NUMBER: US/10/645,441
; CURRENT FILING DATE: 2003-08-20
; PRIOR APPLICATION NUMBER: US/09/927,315
; PRIOR FILING DATE: 2001-08-10
; PRIOR APPLICATION NUMBER: US 60/302,898
; PRIOR FILING DATE: 2001-07-03
; NUMBER OF SEQ ID NOS: 25
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 3
; LENGTH: 777
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; OTHER INFORMATION: human T1R1 sweet taste receptor
; US-10-645-441-3

```

	Query Match	28.5%;	Score 1267.5;	DB 6;	Length 777;
	Best Local Similarity	37.4%;	Pred. No. 7.9e-99;		
	Matches	294;	Conservative 124;	Mismatches 331;	Indels 37; Gaps 14;
Qy	68	GYNLQAMRFAVEINDDSLLPGVLGGEYIVDVCIYINNVPVLYFLA----	HEDNLLP	123	
Db	9	GYHLFQAMRLGVEINNSTALLPNITLGYQLYDVCSDSANVYATLRVLSLPGQHH----	IE	65	
Qy	124	IQEDYSNVI SRVVAIVGPDNSESVMTVANFSLSLLELLPQITYSALSDELRLKRVFPALLRT	183		
Db	66	LQGLLHYSPTVLAVIGPDSNTNRAATTAALLSPELV-HISYAASSETLSVKRQYPSFLRT	124		
Qy	184	TPSADHVEAVVOLMLHFRNWIIVLVSSDTYGRDNGQLLGERVARDICIAFOETLP-T	242		
Db	125	IPNDKYQVETWVLLLQKFGWTWISLVGSSDDYGGQLGVQALENQALVRGICIAPKDIMPFS	184		
Qy	243	LQPNQNTSBERQLRTIVDKLQOSTARVVVVFSPDLTLHYHFNVLQRNFTGAVWTASE	302		
Db	185	AQVGD-----ERMQCLMRHLAQAGATVVVVFSSRQLARVFFESVLTNLTKGVWASE	237		
Qy	303	SWAIDPVLHNLTELGLTGLTIGITIQSPIPGFSEFREWGPQA----GPPFLSRTSQSUTC	359		
Db	238	AWALSRIHTGVPGTQIRIGWLGVAIQKRAVFLGKAFAEAYARADKEAPRPCHKGSWC--SS	296		
Qy	360	NOECNCLNATLSFNTILRLSGERVVTSYAVVAHAHLHSLIGCDKSTCTKRVVYPMQ	419		
Db	297	NQLCREQAFWAHTMPKLKAFSMSANAYRANVAVAHGLHQLLGCASELCSGRGVYPMQ	356		
Qy	420	LLEBIKVNFTLLDHOIFPDQGDVALHLEIVQWDRSQNPQFOSVAS--YYPLQRQLKN	477		
Db	357	LLEQIHKVHFLHKDDTVAFNDNRDPLSSNYIIANDWNGPKWTFITVLGSSTWSPVOLNI-N	415		
Qy	478	IQDITSWHTVNNNTI PMSMGSKCSQSGKKPKPGVGHVCCPECIDCLPGTFLNHTDEYEQCA	537		

Db 8 WLLALHTWHTSAYGDDQRAKKGDIILGLFPIHF---GVAKO---QDLKSPSPVEICR 62
QY 69 YNL-----MQAMFAVEEINNDSLLPGVLLGYEIVDVC-YISNNVQVLYFLA-HEBNL 121
Db 63 YNFRGFRWLQAMFAIEEINSPALLPNLTGLYRIFDTCNTVSKALEATLSPVAKNKIDS 122
QY 122 LPIQE--DYSNVIISRVAVIGPDNSESVMTVANFLSLFLLPOITYSAISDELKVRPFA 179
Db 123 LNLDFEFCNCSEHIPSTIAVVGATSGVSTAVANLLGLFYIPQVSYASSRLLSNKNQPKS 182
QY 180 LLRTTPSADHVEAMVQLMLFRWNIIIVLSSDITYGRDNGQLGERVARRDICIAPFOT 239
Db 183 FLRTIPDEHQATWADIEYFRWNWGTIAADDYGRPGIKFREBAEERDICIDEFSEL 242
QY 240 LPTLPQNMNTSEERQLVTIIVDKLQOSTARVVVVVSPDLTYLHFFNEVLNQFTGAVMI 299
Db 243 I-----SQVSDDEEIQHVVEVI---QNSTAKVIVVFSGGPDLEPLIKEIVRRNITGKIWL 294
QY 300 ASESWAIDPVNLNLTGHLGHTFLGITITQSVPIPGFSEP-----REWGPQ 344
Db 295 ASEAWASSLIAMPOYFHVVGCTIGFALKAGQIPGREFLKKVHPKSVHNGFAKEFWEE 354
QY 345 A-----GPPPLSRTSQSYTCNOECDNCLNATLSENTTLRLSGE----- 382
Db 355 TFNCHLQSGAKGPLVDITFLRGH---BESGDRFSNSTAFRPL---CTGDENISSVETPYID 410
QY 383 ----RVVYSVYSAVAVAHALSHLGC-----DKSTCTKRVVVYVQMLLEEIKWVNFT 430
Db 411 YTHLISYNYLAVYSIAHALQDIYTCLPGRGLFTNGSCADIKKVEAMQVLKHLRLNFT 470
QY 431 -LLDHQIFDPDQGVALLHLEIVOWQDRSONP--FQSVASYIPL-----OROLKNIQDIS 482
Db 471 NMGQVTFDECGDLVGNYSIINMHLSPEDGSIIVPEV--GYNYVYAKGERLFINERKIL 529
QY 483 WHTVNTTIPMSCKRCQSGOKKVV-GIHVCCFECIDCLPCTFLNHTDEVECOACPN 541
Db 530 WSGPREVPFNSCDCLAGTRKGIIEBETPCFCEVCEPDGEYSDET-DASACKNCFDD 588
QY 542 EMSYQSETSCFRQLRVLEWHEAPTIAVALLAALGFLSTLAILVIFWRHFOTPIVRSAGG 601
Db 589 FWSNENHTSCIAKEIEFLSWTEPPGIALTLFAVLGFLTAFLVGVFIKFRNTPIVKATNR 648
QY 602 PNCFLMLTLVAVYVVPVYVGPVKVSTCLCRQALFPLCFTICISCIASVRSQIVCAP-- 659
Db 649 ELSYLLFSLCCFSSSLFFIGEPQDWTCLRQAPAFISFVLCISCIILVKNRVLVFEA 708
QY 660 KWASRPPRAYSVVRYVQGPVYSMAFITVLKMWIVVIGMATCLSPTRTDPPDKITIVS 719
Db 709 KIPTSFHRK---WWGLNQFLVFLCTFMQIVICVI-WLYTAPSSYRNQOELEDEIIFIT 764
QY 720 CNPNYRNSLLFNTSLDLLSVVGFSAFYMKGELPTNYNEAKFITLSMTFYFTSSVSLCTF 779
Db 765 CHEGSLMALGFLIGYTCLLAAICFFFAKSKLPENEFNAKFIITFSLIIFVWIS---F 821
QY 780 MSAYSGVLVTIIVDLVTVNLNLAISLG----YFGPKCMILPYPERN 822
Db 822 IPAYASTYGVKFS-AVEVIAILAA5FGLACIIFFNKVIILFKPSRN 867

RESULT 14

US-10-645-441-25
; Sequence 25, Application US/10645441
; Publication NO. US20050260599A1

GENERAL INFORMATION:

; APPLICANT: Zuker, Charles S.
; APPLICANT: Ryba, Nicholas J.P.
; APPLICANT: Nelson, Greg
; APPLICANT: Hoon, Mark A.
; APPLICANT: Chandrashekar, Jayaram
; APPLICANT: Zhang, Yifeng
; APPLICANT: The Regents of the University of California
; APPLICANT: The Government of the United States of America

; APPLICANT: as represented by the Secretary of the
; APPLICANT: Department of Health and Human Services
; TITLE OF INVENTION: Mammalian Sweet Taste Receptors
; FILE REFERENCE: 023078-12011005
; CURRENT APPLICATION NUMBER: US/10/645,441
; CURRENT FILING DATE: 2003-08-20
; PRIOR APPLICATION NUMBER: US/09/927,315
; PRIOR FILING DATE: 2001-08-10
; PRIOR APPLICATION NUMBER: US 60/302,898
; PRIOR FILING DATE: 2001-07-03
; NUMBER OF SEQ ID NOS: 25
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 25
; LENGTH: 858
; TYPE: PRT
; ORGANISM: Rattus sp.
; FEATURE:
; OTHER INFORMATION: rat Tir3 sweet taste receptor
US-10-645-441-25

Query Match 23.5%; Score 1045.5; DB 6; Length 858;
Best Local Similarity 30.9%; Pred. No. 4.6e-80;
Matches 259; Conservative 162; Mismatches 355; Indels 61; Gaps 23;

QY 24 NSDFYLPDGYLLGGLFSLHANMKGIVHLNFLQVP---MCKEYEVKIVGYNLMQAMRFAVE 80
Db 26 SQCFQAQGYILGGLFPLGTTEAT--LNQRTQNGILCTRF--SPLGLFLAMAMKMAVE 81
QY 81 EINDDSSLLPGVLLGYEIVDVCYISNNV---QPVLYFLAH-EDNLLPIQEDYSNYSRVV 136
Db 82 EINNGSALLPGLRGYDLFDTC--SEPVVTKPSPMLFMFAKVGSGSIAAYCNYTQOPRVL 139
QY 137 AVIGPDNSESVMTVANFLSLFLLPOITYSAISDELKVRPALLRTTPSADHVEAMVQ 196
Db 140 AVIGPSEALITGKFFSFFLMPQVYSASMDRLSDRETTFPPFTTVPSDRVQVAVVT 199
QY 197 LMLHFRWNIIIVLSSDITYGRDNGQLGERVARRDICIAPFOTLPTLPQNMNTSEERQ 256
Db 200 LLQNFPMNNAALGSDDDYDREGLSIFSGLANSGICIAHE---GLVPQHDTSQOQLGK 255
QY 257 LVTIIVDKLQOSTARVVVVVSPDLTYLHFFNEVLNQFTGAVMIASESWAIDPVNLNLT 316
Db 256 VVDVLRQVQSKVQVVLFAVARAVYSLFSYILHDLSPKVMVASESWLTSVLVMTLPNI 315
QY 317 CHLGTFLGITITQSVPIPGFSEFREGWPOAGPPP-----LSRTSQSYTCNOECDN 365
Db 316 ARVGTVLGFLQRGALLPEFSHYVETRLAALADPTFCASLKAELDLLEERVGMGRCSQ-CDY 374
QY 366 CLNATLSFNTTLRLSGERV--VYSVYSAVAVAHALSHLGCCKSTC-TKRVVYVQWLL 421
Db 375 IMLQNLSSGLMQNLISAGQLHHQIFATYAAVYSVAQALHNTLQCNVSHCHTSEVPQWQL 434
QY 422 BEIKWVNTLLDHQIFDPDQGVALLHLEIVOWQDRSONPFSQVASYIPLQRLKNIQDI 481
Db 435 ENMYNMSFRADLTLPQDAKGSVDMEYDLKMWVQSPTPVLHTVGF----NGTLQLQHS 490
QY 482 SWHTVNTTIPMSCKRCQSGOKKVPVGIHVCCFECIDCLPCTFLNHTDEVECOACPN 541
Db 491 KMYWPGNQVPSQCSROCKDQVRVKGFHSCYDCVCKAGSYRKH-PDDTCTPCGKD 549
QY 542 EMSYQSETSCFRQLRVLEWHEAPTIAVALLAALGFLSTLAILVIFWRHFOTPIVRSAGG 601
Db 550 QMSPEKSTTCLPRRPKFLAWGEPVLSLULLLCLVLGLTLAALGLFVHWDSPLVQASGG 609
QY 602 PM-CFLMLTLVAVYVVPVYVGPVKVSTCLCRQALFPLCFTICISCIASVRSQIVCAPK 660
Db 610 SLFCFGLICLGLFCLSVL-LPPGRPRASCLAAQOPMAHLPLTGLCLSTLFLQAAEIF--- 664
QY 661 MASRPPRAYSVV---RYOGPYVSMAFITVLKMWIVVIGMLA---TGLSPTTETDPPD-PK 714
Db 665 VESELPLSWANWLCSYLRGPW---AWLVVLLATLVEAALCAWYLMAFPEVVVTDQVLP 721
QY 715 ITIVSCNPYRNSLLFNTSLDLLSVVGFSAFYMKGELPTNYNEAKFITLSMTFYFTSSV 774

[illegible]

RESULT 15

```

US-10-725-475-4
; Sequence 4, Application US/10725475
; Publication No. US20060014208A1
; GENERAL INFORMATION:
; APPLICANT: ZOLLER, MARK
; APPLICANT: LI, XIAODONG
; APPLICANT: STASZEWSKI, LENA
; APPLICANT: O'CONNELL, SHAWN
; APPLICANT: ZOZULYA, SERGEY
; APPLICANT: ADLER, JON
; APPLICANT: XU, HONG
; APPLICANT: ECHEVERRI, FERNANDO
; TITLE OF INVENTION: T1R HETERO-OLIGOMERIC TASTE RECEPTORS AND CELL LINES
; TITLE OF INVENTION: THAT EXPRESS SAID RECEPTORS AND USE THEREOF FOR
; TITLE OF INVENTION: IDENTIFICATION OF TASTE COMPOUNDS
; FILE REFERENCE: 078003-0291566
; CURRENT APPLICATION NUMBER: US/10/725,475
; CURRENT FILING DATE: 2003-12-03
; PRIOR APPLICATION NUMBER: 60/300,434
; PRIOR FILING DATE: 2001-06-26
; PRIOR APPLICATION NUMBER: 60/304,749
; PRIOR FILING DATE: 2001-07-13
; PRIOR APPLICATION NUMBER: 60/310,493
; PRIOR FILING DATE: 2001-08-08
; PRIOR APPLICATION NUMBER: 60/331,771
; PRIOR FILING DATE: 2001-11-21
; PRIOR APPLICATION NUMBER: 60/339,472
; PRIOR FILING DATE: 2001-12-14
; PRIOR APPLICATION NUMBER: 60/372,090
; PRIOR FILING DATE: 2002-04-15
; PRIOR APPLICATION NUMBER: 60/374,143
; PRIOR FILING DATE: 2002-04-22
; NUMBER OF SEQ ID NOS: 19
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 4
; LENGTH: 858
; TYPE: PRT
; ORGANISM: Rattus sp.
US-10-725-475-4

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Query Match	23.5%	Score 1045.5	DB 6	Length 858
Best Local Similarity	30.9%	Pred. No. 4.6e-80		
Matches 259	Conservative 162	Mismatches 355	Indels 61	Gaps 23
Qy	24	NSDFYLPQDYLGLGSLFSLHAKMKIGIVHLNFTLQVP---MCKEYEVKVIYGNLMQAMRFAVE	80	
Db	26	SQQFKAQGDYILGGLPLGTTEAT--LNQRTQPNGILCTRF--SPLGLFLAMAKMAVE	81	
Qy	81	EINNDSELLPGVILGYEIVDVCYISNNV--QPVLYFLAH--EDNLLPIQEDSYNYSIRSVV	136	
Db	82	EINNGSALLPGRLRGYDLDFDC--SEPVVTKPSPFMFMAKVGSSQSIAYCNYITQYQPRVL	139	
Qy	137	AVIGPDNSESVMTVANFLSLPLLPQITYSATISDELRLDKVFPFALLRTPPTSADHRHEAMVQ	196	
Db	140	AVIGPHSSELALITGKFFSPFLMQVSYSASMDRLSDRETFFSPFRVPSRVDQLQAVVT	199	
Qy	197	LMHLFRNWWIIVLVSSDTHYGRDNQQLGERVARVDICIAQETLPTLPQNQNMTHSEQRQ	256	
Db	200	LQQFSPMWNWAAALGSDDDYEGREGLUSIFSLGANSRGICIAHE-----GLVPQHDTSQQQLGK	255	
Qy	257	LVTITVDKLQOSTARVVVWFSPDLTYLTHFFNEVLNRQNTGAVWIASGWAIDPVLHNLTEL	316	
Db	256	VDVILRVNOSKQVWVILFASARAVSLFYSILHDLSPKVMWASGSLWISDLVMTLPNI	315	

```

317 QY GHGTFGLGITI QSVPIPGFSEFWGQAGPPP-----LSRTSQSVTNOECDN 366
318 QY : : : : : : : : : : : : : : : : : : : : : : : : : : : :
319 QY : : : : : : : : : : : : : : : : : : : : : : : : : : : :
316 DB ARGVTGLGFLQRGALLPEF SHYVETRULALAADPTFCASLKAELEERVMGPRCSQ-CDY 374
317 DB : : : : : : : : : : : : : : : : : : : : : : : : : : : :
318 DB : : : : : : : : : : : : : : : : : : : : : : : : : : : :
366 QY CLNATLSFNITLRLSGSERV---VYSVSAYAVAVAHALSHLGLGCKSTC-TKRVVYVPMQLL 421
367 QY : : : : : : : : : : : : : : : : : : : : : : : : : : : :
368 QY : : : : : : : : : : : : : : : : : : : : : : : : : : : :
375 DB IMLQNLSGLMQNLISAGOLHHQIFATYAAVYSVAQALHNTLQCNVSHCHTSEPVQPMQLL 434
376 DB : : : : : : : : : : : : : : : : : : : : : : : : : : : :
377 DB : : : : : : : : : : : : : : : : : : : : : : : : : : : :
422 QY BEETKWNFTLLDHOIFPDPOGDVALHLEIVOMQWDRSQNPQOSVASYYPQLORLKNIQOI 481
423 QY : : : : : : : : : : : : : : : : : : : : : : : : : : : :
424 QY : : : : : : : : : : : : : : : : : : : : : : : : : : : :
435 DB ENMYNMSFRARDLTQLQDARSGSDVMEYDLKMWVWQSPFVLHTVGTG-----NGTLQLQHS 490
436 DB : : : : : : : : : : : : : : : : : : : : : : : : : : : :
437 DB : : : : : : : : : : : : : : : : : : : : : : : : : : : :
482 QY SHTVNNNTIPMSWCSKRCQSGOKKKPGVGHVCCPECIDCLPGTFNLNHTDESEYEOACPNN 541
483 QY : : : : : : : : : : : : : : : : : : : : : : : : : : : :
484 QY : : : : : : : : : : : : : : : : : : : : : : : : : : : :
491 DB KMYWPGNQVPVQCSRCQKQGVRRVRKGFHSCCYDCVCKAGSYRKH-PDDFTCTPCGKD 549
492 DB : : : : : : : : : : : : : : : : : : : : : : : : : : : :
493 DB : : : : : : : : : : : : : : : : : : : : : : : : : : : :
542 QY EWSYQSTSCFKQKLVLEWHEAPTIAVALLAALGFLSTLAILVIFWRHFQTPVRSAGG 601
543 QY : : : : : : : : : : : : : : : : : : : : : : : : : : : :
544 QY : : : : : : : : : : : : : : : : : : : : : : : : : : : :
550 DB QWSPEKSTTCLPRPKFLAWGEPAVLSTLLLLCLVLGLTALAALGLFVHYWDSPLVOASGG 609
551 DB : : : : : : : : : : : : : : : : : : : : : : : : : : : :
552 DB : : : : : : : : : : : : : : : : : : : : : : : : : : : :
602 QY PM-CFLMLTLLVAYMVVVPVGGPKVSTCLCROALPCLPCTIICISCIASVSFQIVCAFPK 660
603 QY : : : : : : : : : : : : : : : : : : : : : : : : : : : :
604 QY : : : : : : : : : : : : : : : : : : : : : : : : : : : :
610 DB SLPCFGICLGLFCLSVL-LFPGRPRASCLAQOPMAHLPLTGCLSTLFLQAAEIF- 664
611 DB : : : : : : : : : : : : : : : : : : : : : : : : : : : :
612 DB : : : : : : : : : : : : : : : : : : : : : : : : : : : :
661 QY MASRFPRAYSYVW--RYQGPVYSMAFITVLKQWIVWIGMLA---TGLSPTRTDDDD-PK 714
662 QY : : : : : : : : : : : : : : : : : : : : : : : : : : : :
663 QY : : : : : : : : : : : : : : : : : : : : : : : : : : : :
665 DB VESELPLSWANWLCSYLRGPW--AWLVLLIATVEAALCAWYLMAPPEVVVDQWVLPT 721
666 DB : : : : : : : : : : : : : : : : : : : : : : : : : : : :
667 DB : : : : : : : : : : : : : : : : : : : : : : : : : : : :
715 QY ITIVSCLNPYNSLLFNSTLDDLILSVVGFSPAYMGKELPTYNWNEAKFTLSLMTFVFTSSV 774
716 QY : : : : : : : : : : : : : : : : : : : : : : : : : : : :
717 QY : : : : : : : : : : : : : : : : : : : : : : : : : : : :
722 DB EVLEHCMRSMWSJLGLVHHIINAVLALICFLGTFTVLVQSQPGRYNRARGUTFFAMLAYFIWV 781
723 DB : : : : : : : : : : : : : : : : : : : : : : : : : : : :
724 DB : : : : : : : : : : : : : : : : : : : : : : : : : : : :
775 QY S-----LCTFMSAYSGVLVTIIVDLLVTVLNLLAISLGVEPKCYKMLFYPERNTPAYF 827
776 QY : : : : : : : : : : : : : : : : : : : : : : : : : : : :
777 QY : : : : : : : : : : : : : : : : : : : : : : : : : : : :
782 DB SEVDPLANVOAYOPA-VOMCAIIFCALGIHAT---PFLPKCYVLLWMLPELNTOSFF 834
783 DB : : : : : : : : : : : : : : : : : : : : : : : : : : : :
784 DB : : : : : : : : : : : : : : : : : : : : : : : : : : : :

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Search completed: February 11, 2006, 23:13:32
Job time : 21 secs

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Result No.	Score	Query Match	Length	DB	ID	Description	
1	1895.4	53.2	2559	3	US-09-897-427A-5	Sequence 5, Appli	
2	1895.4	53.2	2559	3	US-09-897-427A-7	Sequence 7, Appli	
3	149.4	4.2	13219	3	US-09-949-016-13522	Sequence 13522, A	
4	147	4.1	2526	3	US-09-897-427A-1	Sequence 1, Appli	
5	112.4	3.2	4134	3	US-09-162-021B-1	Sequence 1, Appli	
6	112.4	3.2	4134	3	US-09-687-477-17	Sequence 17, Appli	
7	112.4	3.2	4134	3	US-09-687-476-17	Sequence 17, Appli	
8	112.4	3.2	4134	3	US-09-687-372-17	Sequence 17, Appli	
9	112.4	3.2	4134	3	US-09-975-553-17	Sequence 17, Appli	
10	112.4	3.2	4134	3	US-10-270-795-17	Sequence 17, Appli	
11	112.4	3.2	4134	3	US-10-270-876-17	Sequence 17, Appli	
12	112.4	3.2	4134	3	US-10-268-051-7	Sequence 7, Appli	
13	112.4	3.2	4134	3	US-10-411-076-23	Sequence 23, Appli	
14	112.4	3.2	4134	3	US-10-125-772-1	Sequence 1, Appli	
15	111	3.1	2925	3	US-09-695-481-3	Sequence 3, Appli	
16	111	3.1	3234	3	US-09-016-434-1432	Sequence 1432, Ap	
17	111	3.1	3809	2	US-08-485-588-3	Sequence 3, Appli	
18	111	3.1	3809	2	US-08-484-565-3	Sequence 3, Appli	
19	111	3.1	3809	2	US-08-480-751-3	Sequence 3, Appli	
20	111	3.1	3809	2	US-08-943-986-3	Sequence 3, Appli	
21	111	3.1	3809	3	US-08-353-784-3	Sequence 3, Appli	
22	111	3.1	3809	3	US-08-484-719B-3	Sequence 3, Appli	
23	111	3.1	3809	3	US-08-546-998-2	Sequence 2, Appli	
24	111	3.1	3809	3	US-08-494-159-3	Sequence 3, Appli	

200	Db	CAAAACGGCCTCTCTCGGCACTGGCCATGAAATGGCGTGGAGGAGATCAACAAACAAGT	259
571	Qy	CGGATCTGCTGCCCGGCTGGCTGGGTACGACCTCTTTGTATACGTGCTCGAGCGCTG	630
260	Db	CGGATCTGCTGCCCGGCTGGCTGGGTACGACCTCTTTGTATACGTGCTCGAGCGCTG	319
631	Qy	TGGTGGCCATGAAGCCAGCCCTCATGTTCTTGGCCAAAGCAGGAGCGCCGACATCGCCG	690
320	Db	TGGTGGCCATGAAGCCAGCCCTCATGTTCTTGGCCAAAGCAGGAGCGCCGACATCGCCG	379
691	Qy	CCTACTGCACTACGAGCTACAGCCCCGTGTGCTGGTGTCTCATTCGGGCCCATCTCGT	750
380	Db	CCTACTGCACTACGAGCTACAGCCCCGTGTGCTGGTGTCTCATTCGGGCCCATCTCGT	439
751	Qy	CAGAGCTCGCCATGGTCACCGGCAAGTTCTTCAGCTTCTTCCTCATGCC-----	810
440	Db	CAGAGCTCGCCATGGTCACCGGCAAGTTCTTCAGCTTCTTCCTCATGCC-----	489
811	Qy	CCCCCACCACATACCCACCCCAACCAACCCCTGCCCTGGGAGCCCTTGTGTACAGGA	870
490	Db	-----	489
871	Qy	GAATGCTATATGCAACCCACCCAGCCCTGGCTGGGAGCCCTGTGTGAGAAGATGCTCTT	930
490	Db	-----	489
931	Qy	GGCCTTCGAGGTACGCTACGGTGTACGTATGGAGCTGCTGAGCGCCCGGAGACCTTCCC	990
490	Db	-----CAGGTACGCTACGGTGTACGTATGGAGCTGCTGAGCGCCCGGAGACCTTCCC	542
991	Qy	CTCCTCTTTCGCAACCGTGCCACGAGACGCTGTGCTACGTACGCGCCCGCGAGCTGCT	1050
543	Db	CTCCTCTTTCGCAACCGTGCCACGAGACGCTGTGCTACGTACGCGCCCGCGAGCTGCT	602
1051	Qy	GCAGGAGTTTCGGCTGGAACTTCGGTGGCCGCCCTTGGGACGGCAACGAGTACCGCCGGCA	1110
603	Db	GCAGGAGTTTCGGCTGGAACTTCGGTGGCCGCCCTTGGGACGGCAACGAGTACCGCCGGCA	662
1111	Qy	GGGCTGAGCATCTTCTCGGCCCTGGCGCGGCGACGCGGCATCTGCACTCGGCACAGGG	1170
663	Db	GGGCTGAGCATCTTCTCGGCCCTGGCGCGGCGACGCGGCATCTGCACTCGGCACAGGG	722
1171	Qy	CCTGCTGCGCTGCCCGTCCGATGACTCGCGCTGGGAAAGTGACAGACGTCCTGCA	1230
723	Db	CCTGCTGCGCTGCCCGTCCGATGACTCGCGCTGGGAAAGTGACAGACGTCCTGCA	782
1231	Qy	CCAGGTGAACACAGACGAGCTGCAAGTGTGCTGCTCTTCGCTTCGTCGACCGCCCA	1290
783	Db	CCAGGTGAACACAGACGAGCTGCAAGTGTGCTGCTCTTCGCTTCGTCGACCGCCCA	842
1291	Qy	CGCCCTCTTTAACTACAGATACAGAGAGCTCTCGCCCAAGGTGTGGGTGCGCAGCGA	1350
843	Db	CGCCCTCTTTAACTACAGATACAGAGAGCTCTCGCCCAAGGTGTGGGTGCGCAGCGA	902
1351	Qy	GGCCTGCTGACCTCTGACCTGCTCATGGGCTGCCCGGCATGGCCAGATGGGACGCT	1410
903	Db	GGCCTGCTGACCTCTGACCTGCTCATGGGCTGCCCGGCATGGCCAGATGGGACGCT	962
1411	Qy	GCTTGGCTTCTCCAGAGGGGTGCCAGCTGACAGGTTCCTCCCAAGTGTGGGTGCGCAGCGA	1470
963	Db	GCTTGGCTTCTCCAGAGGGGTGCCAGCTGACAGGTTCCTCCCAAGTGTGGGTGCGCAGCGA	1022
1471	Qy	CCTGGCCTTGCCCAACGACCGGCTTCTGCTCTGCTGGCGAGAGGAGCAGGGTCT	1530
1023	Db	CCTGGCCTTGCCCAACGACCGGCTTCTGCTCTGCTGGCGAGAGGAGCAGGGTCT	1082
1531	Qy	GGAGGAGCAGTGTGGGCGACGCTGCCCGCAGTGTGATGCAATACGCTGCGAGACGT	1590
1083	Db	GGAGGAGCAGTGTGTGGGCGACGCTGCCCGCAGTGTGATGCAATACGCTGCGAGACGT	1142
1591	Qy	GAGCGCAGGGCTAAATCACCACAGACGTTCTCTGTCTAGCGACCTGTATAGCGTGGC	1650

1143	Db	GAGCGCAGGGCTAAATCACACACAGAGCTTCTCTGTCTACGCAAGCTGTGTATAGCGTGGC	1202
1651	Qy	CCAGGCCCTGCACAAACACTCTTCAGTGCACAAAGCTCTCAGGCTGCCCGCGCAGACACCCCGT	1710
1203	Db	CCAGGCCCTGCACAAACACTCTTCAGTGCACAAAGCTCTCAGGCTGCCCGCGCAGACACCCCGT	1262
1711	Qy	GAAGCCCTGCACAGGTGAGCCCGGGAGATGAGGGGTGTGTCTCTGTGCATGTGCCCAAGGC	1770
1263	Db	GAAGCCCTG-----	1271
1771	Qy	CACAGGACGGCCACACAGCCTGAGCTGGAGGTGSGCTGGCGGCTCAGCCCCCTCCCCCG	1830
1272	Db	-----	1271
1831	Qy	CCCGAGCTCTCGAGAAATGTACAACCTGACTTCACAGTGGCGGGGTGCGCGTGTGCG	1890
1272	Db	---GCAGCTCTCGAGAAATGTACAACCTGACTTCACAGTGGCGGGGTGCGCGTGTGCG	1328
1891	Qy	GTTTCGACAGCAGCGGAAACGTGACATATGAGTATAGACTGAAGACTGTGGGTGTGGCAGGG	1950
1329	Db	GTTTCGACAGCAGCGGAAACGTGACATATGAGTATAGACTGAAGACTGTGGGTGTGGCAGGG	1388
1951	Qy	CTCAGTGCCCAAGCTCCACGACGTGGGCAGGTTCAAGCGCAGGCTCAGGACAGAGCGCCT	2010
1389	Db	CTCAGTGCCCAAGCTCCACGACGTGGGCAGGTTCAAGCGCAGGCTCAGGACAGAGCGCCT	1448
2011	Qy	GAAGATCCGCTGGCACACGCTCTCACAAACAGGTGAGGTGAGGGTGGGTGTGCCAGGCGTG	2070
1449	Db	GAAGATCCGCTGGCACACGCTCTCACAAACAGGTGAGGTGAGGGTGGGTGTGCCAGGCGTG	1476
2071	Qy	CCCGTGGTATGCCCCCGCGCAGGGCGCAGCTGCGGGGTGGGGGCCGTTCCAGTCTCCCCGT	2130
1477	Db	-----	1476
2131	Qy	GGGCATGCCCAGCGCAGCAGACAGCCAGCCAGGCTGTGCGCAGAAAGCCCGTGTCCCCG	2190
1477	Db	-----CAGAAGCCCGTGTCCCCG	1494
2191	Qy	TGCTCGCGCAGTGCCAGGAGGGCCAGGTGCGCGGGTCAAGGGGTTCCACTCTCTGCTGC	2250
1495	Db	TGCTCGCGCAGTGCCAGGAGGGCCAGGTGCGCGGGTCAAGGGGTTCCACTCTCTGCTGC	1554
2251	Qy	TACGACTGTGTGACTGTCGAGGGCGGCAGCTACCGGCAAAACCCAGGTGAGCGCCCTTCC	2310
1555	Db	TACGACTGTGTGACTGTCGAGGGCGGCAGCTACCGGCAAAAC-----	1597
2311	Qy	CGGCAGCGCGGGGTGGGAACGACAGAGGGGAGGGTCTGTGCAAAGTCTGACTGTGAGACC	2370
1598	Db	-----	1597
2371	Qy	AGAGCCACAGGGTACAGAGCAACACCCAGCGCCCTTCTCTCTCTCAGACAGACATC	2430
1598	Db	-----CAGACGACATC	1608
2431	Qy	GCCTGCACCTTTTGTGGCCAGGATGAGTGTCTCCCGAGCGAAGCAGACGCTGTTCCCGC	2490
1609	Db	GCCTGCACCTTTTGTGGCCAGGATGAGTGTCTCCCGAGCGAAGCAGACGCTGTTCCCGC	1668
2491	Qy	CGCAGGTCTCGGTTCCTGTGCATGGGCGAGCCGGCTGTGCTGTGCTGTCTGTCTGTCTG	2550
1669	Db	CGCAGGTCTCGGTTCCTGTGCATGGGCGAGCCGGCTGTGCTGTGCTGTCTGTCTGTCTG	1728
2551	Qy	AGCTGGCGCTGGCCTGTGTGCTGTCTTTGGGCTGTTCCTTACCATCGGAGACAGC	2610
1729	Db	AGCTGGCGCTGGCCTGTGTGCTGTCTTTGGGCTGTTCCTTACCATCGGAGACAGC	1788
2611	Qy	CCACTGTTTCAAGGCTCGGGGGGCCCTTGGCCTGTGTTGGCCTGTGTGTGCTTGGGCCCTG	2670
1789	Db	CCACTGTTTCAAGGCTCGGGGGGCCCTTGGCCTGTGTTGGCCTGTGTGTGCTTGGGCCCTG	1848
2671	Qy	GTCTGCTCAGCGTCTCTGTTCCTCTGGCCAGCCAGCCCTTCCCGATGCTCTGGGCCAG	2730
1849	Db	GTCTGCTCAGCGTCTCTGTTCCTCTGGCCAGCCAGCCCTTCCCGATGCTCTGGGCCAG	1908

QY	2731	CAGCCCTGTGCCACCTCCGGCTCAGGGCTGCTGAGCACACTCTTCTCGAGGCGGC	2790
Db	1909	CAGCCCTGTGCCACCTCCGGCTCAGGGCTGCTGAGCACACTCTTCTCGAGGCGGC	1968
QY	2791	GAGATCTTCGTGGAGTCAGAACTGCTCTGAGCTGGGCAGACCGGTGAGTGCTGCCTG	2850
Db	1969	GAGATCTTCGTGGAGTCAGAACTGCTCTGAGCTGGGCAGACCGGTGAGTGCTGCCTG	2028
QY	2851	CGGGGGCCCTGGGCTGGTGTGCTGCTGGCCATGCTGTGTGAGGTGCGACACTGTGC	2910
Db	2029	CGGGGGCCCTGGGCTGGTGTGCTGCTGGCCATGCTGTGTGAGGTGCGACACTGTGC	2088
QY	2911	ACCTGTGTACTGTGTGCTCTTCCCGCCGAGGTGGTGAACGGACTGGCACATGCTGCCACG	2970
Db	2089	ACCTGTGTACTGTGTGCTCTTCCCGCCGAGGTGGTGAACGGACTGGCACATGCTGCCACG	2148
QY	2971	GAGCGCTGTGTGACTGCGCGCACACGCTCTCTGGGTGAGCTTCGGCTAGCGGACCGCAC	3030
Db	2149	GAGCGCTGTGTGACTGCGCGCACACGCTCTCTGGGTGAGCTTCGGCTAGCGGACCGCAC	2208
QY	3031	AATGCCACGCTGGCCCTTCTCTGCTTCCTGGGCACATTTCTGTGTGGAGCCAGCCGGGC	3090
Db	2209	AATGCCACGCTGGCCCTTCTCTGCTTCCTGGGCACATTTCTGTGTGGAGCCAGCCGGGC	2268
QY	3091	TGCTACAACCGTCCCGTGGCCCTCACCTTTGGCCATGCTGGCCCTACTTCATCACTGGTC	3150
Db	2269	CGCTACAACCGTCCCGTGGCCCTCACCTTTGGCCATGCTGGCCCTACTTCATCACTGGTC	2328
QY	3151	TCCTTTGTGCCCTCTCTGGCCAAATGTCAGGTGGTCTCTAGGCCCGCGCTGCAGATGGC	3210
Db	2329	TCCTTTGTGCCCTCTCTGGCCAAATGTCAGGTGGTCTCTAGGCCCGCGCTGCAGATGGC	2388
QY	3211	GGCCTCTGCTCTGTGTCCTGGGCATCCTGGCTGCCTTCCACCTGCCAGGCTGTACCTG	3270
Db	2389	GGCCTCTGCTCTGTGTCCTGGGCATCCTGGCTGCCTTCCACCTGCCAGGCTGTACCTG	2448
QY	3271	CTCATGGGAGCCAGGGCTCAACACCCCGAGTTCTTCTCTGGGAGGGGCCCTCGGGGAT	3330
Db	2449	CTCATGGGAGCCAGGGCTCAACACCCCGAGTTCTTCTCTGGGAGGGGCCCTCGGGGAT	2508
QY	3331	GCCCAAGGCCAGAAATGACGGGAACACAGGAAATCAGGGGAAAACATGATGA	3381
Db	2509	GCCCAAGGCCAGAAATGACGGGAACACAGGAAATCAGGGGAAAACATGATGA	2559

RESULT 2

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US-09-897-427A-7
; Patent 7, Application US/09897427A
; Sequence No. 6955887
; GENERAL INFORMATION:
; APPLICANT: ADLER, JON ELLIOT
; APPLICANT: LI, XIADONG
; APPLICANT: STAZEWSKI, LENA
; APPLICANT: XU, HONG
; APPLICANT: EHEVERRI, FERNANDO
; TITLE OF INVENTION: T1R HETERO-OLIGOMERIC TASTE RECEPTORS
; FILE REFERENCE: 078003-0282558
; CURRENT APPLICATION NUMBER: US/09/897,427A
; CURRENT FILING DATE: 2001-07-03
; NUMBER OF SEQ ID NOS: 10
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 7
; LENGTH: 2559
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-897-427A-7

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[illegible]


```

/ TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
/
/ FILE REFERENCE: CL001307
/
/ CURRENT APPLICATION NUMBER: US/09/949,016
/
/ CURRENT FILING DATE: 2000-04-14
/
/ PRIOR APPLICATION NUMBER: 60/241,755
/
/ PRIOR FILING DATE: 2000-10-20
/
/ PRIOR APPLICATION NUMBER: 60/237,768
/
/ PRIOR FILING DATE: 2000-10-03
/
/ PRIOR APPLICATION NUMBER: 60/231,498
/
/ PRIOR FILING DATE: 2000-09-08
/
/ NUMBER OF SEQ ID NOS: 207012
/
/ SOFTWARE: FastSeq for Windows Version 4.0
/
/ SEQ ID NO 13522
/
/ LENGTH: 13219
/
/ TYPE: DNA
/
/ ORGANISM: Human
/
/ US-09-949-016-13522

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Query Match	4.2%	Score 149.4	DB 3	Length 13219	
Best Local Similarity	47.9%	Pred. No. 1e-17			
Matches 432	Conservative	0	Mismatches 471	Indels 0	Gaps 0
Qy	2411	CCCTCTCTCAGACGACATCGCTGCACCTTTTGTGGCCAGAGTAGTGTGCCCGAGC	2470		
Db	591	CTTCCCTTTTCAGACCTCTACAGATGCACAGCTTGTGGAAAGAAGAGTGGGCACTGAGG	650		
Qy	2471	GAAGACACACGCTGTCTCCGGCCGAGGFTCTCGGTTCTGTGGCATGGGGCGAGCCGGCTGTGC	2530		
Db	651	GAAGCCAGACCTGCTTCCCGCGCACTGTGGTGTTTGTGGCTTTTGGCTGTGAGCACACCTCTT	710		
Qy	2531	TGCTGTGTCTCTGTCTGCTGAGCTCGGCTGGGCTGTGGCTGTGTGGCTTTTGGGGCTGT	2590		
Db	711	GGGTGTGTCTGGCAGCTAAACAGCTGTCTGTGTGTCTGTCTTGGAGCTGTGGCCCTGT	770		
Qy	2591	TCGTTTACCATTGGGACAGGCCACTGGTTTCAGGGCTTCGGGGGGGCCCTCGCCTGCTTTG	2650		
Db	771	TTGCCTGGCACTAGACACCCCTGTGTGTGAGGTTCAGCAGGGGGCGCGCTGTGCTTCTTA	830		
Qy	2651	GCTGTGTGTCTGGGCTGTGTCTGTCTGAGCTCTCTGTCTTCCCTTGGCCAGGCCAGCC	2710		
Db	831	TGCTGGGCTCCTTGGCAGCAGTAGTGGCAGCCTCTATGGCTTCTTTTGGGGAAACCCACA	890		
Qy	2711	CTGCCCATGCTTGGGCCACAGAGCCCTTGTCCCACTCCGCTCACGGGCTGCTGAGCA	2770		
Db	891	GGCCTGGTGCTTGTCTAGCCAGGCCCTCTTGGCCCTTGGTTTCACCATCTTCTGTGCTCT	950		
Qy	2771	CACCTCTTCTCGAGCGCGCCAGATCTTCTGTGGAGTCAGAACTGCCTCTGAGCTGGGGAG	2830		
Db	951	GCCTGACAGTTTCGCTCATTTCCAATAATCATCATCTTCAAGTTTTCACAAAGGTACCTA	1010		
Qy	2831	ACCGGCTGAGTGGCTGTGCTGGGGGGCCCTGGGCTGGCTGGTGTGTCTGTGGCCATGC	2890		
Db	1011	CAATTCTACAGCCTGGGTCAAACACACGGTGTGGCCCTGTTTGTGATGATCAGCTCAG	1070		
Qy	2891	TGGTGGAGTCCGACTGTGCACCTGTGTACCTGTGTGGCCCTTCCGCCGGAGGTGGTGACGG	2950		
Db	1071	CGGCCCACTGCTTATCTGTCTTACTTGGCTGGTGGTGTGACCCCACTGCCTCTAGGG	1130		
Qy	2951	ACTGGCAATGCTGCCACGAGGGCGTGTGTGCACTGCCGCACAGCTCTGGGTTCAGCT	3010		
Db	1131	AATACACAGCGCTTCCCCCATCTGTGTGATGTGTGATGTCACAGACCAACTCCCTGGGCT	1190		
Qy	3011	TCGGCTTAGCGACGCCACCAATGCCAGCTGGCCCTTCTCTGTCTTCTGGGCCATTTCC	3070		
Db	1191	TCATACTGGCCTTCTCTACAAATGGCTTCTCTCTCATCAGTGCCTTTGGCTTGCAGCTACC	1250		
Qy	3071	TGGTGGGAGCAGCCGGGCTGTACAAACCGTGGCCGTGCGCTCACCTTTGCCAATGTGG	3130		
Db	1251	TGGGTAAGGACTTGGCAGAGAACTACAAACGAGGGCCAAATGTGTCACTTTCAGCCTGCTCT	1310		
Qy	3131	CCTACTTTCATCAGCTGGGTCTCTTTTGTGGCCCTCCTGGGCCAAATGTGAGGTGGTCTCA	3190		
Db	1311	TCAACTTCGTCTCTGGATCGCTTCTTTCACACAGGCCAGCGGTCTACAGCCCAAGTACC	1370		

Qy	3191	GGCCGCCGCTGCAGATGGGGGGCCCTCCTGCTCTGTGTCCTCGGGCATCTCGGGCTGCCTTCC	3255
Db	1371	TGCTCGGCCCAACATGATGGCTGGGCTGAGCAGCCTGAGCAGCGGCTTCGGTGGGTATT	1430
Qy	3251	ACCTGCCCCAGGTGTTTACCTGCTCATCGGCAGCCAGGGGCTCAACACCCCGAGTTCTTCC	3310
Db	1431	TTCTGCTAAGTGCTACGTGATCCTCTGCGGCCAGACCTCAACAGCAGAGCACTTCC	1490
Qy	3311	TGG 3313	
Db	1491	AGG 1493	

RESULT 4
 US-09-897-427A-1
 ; Sequence 1, Application US/09897427A
 ; Patent No. 6955887
 ; GENERAL INFORMATION:
 ; APPLICANT: ADLER, JON ELLIOT
 ; APPLICANT: LI, XIADONG
 ; APPLICANT: STAZEWSKI, LENA
 ; APPLICANT: XU, HONG
 ; APPLICANT: BEHEVERRI, FERNANDO
 ; TITLE OF INVENTION: T1R HETERO-OLIGOMERIC TASTE RECEPTORS
 ; FILE REFERENCE: 078003-0282558
 ; CURRENT APPLICATION NUMBER: US/09/897,427A
 ; CURRENT FILING DATE: 2001-07-03
 ; NUMBER OF SEQ ID NOS: 10
 ; SOFTWARE: PatentIn Ver. 2.1
 ; SEQ ID NO 1
 ; LENGTH: 2526
 ; TYPE: DNA
 ; ORGANISM: Homo sapiens
 ; US-09-897-427A-1

	Query Match	4.1%; Score 147; DB 3; Length 2526;	
	Best Local Similarity	47.5%; Pred. No. 2.2e-17;	
	Matches	435; Conservative 0; Mismatches 480; Indels 0; Gaps 0;	
QY	2399	CAGGGCCCTTCTCTCTCACAGACATCGCTGCACCTTTTGTCGCAAGATCAGT	2458
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QY	2459	GGTCCCCGGAGCGAAGACACAGCTGTCTTCGCGCGCAGGTCTCGGTTCTTGGCATPGGGCG	2518
DB	1631	GGGCACCTTAGGGAAGCCAGACCTGCTTCCGCGCACTGTGGTGTTTTGGCTTTGGCGT	1690
QY	2519	AGCGGGCTGTGCTGCTGCTGCTGTCTGTCTGTGCTGAGCTGGCGCTTGTGCTGTGCTG	2578
DB	1691	AGCACACTCTTGGGTGCTGTGGCAGCTAACACGCTGCTGCTGCTGCTGTGCTGGGA	1750
QY	2579	CTTTGGGGCTGTGCTGTACCATCGGACAGCCCACCTGGTTCAGGCTCGGGGGGGCCCC	2638
DB	1751	CTGCTGCGCTGTTTGCCCTGGCACTAGACACCCTGTGGTGAGTCAGCAGGGGGCCGCC	1810
QY	2639	TGGCCTGCTTTGGCTTGGTGTGCTGGGCTTGFTCTGCCTCAGCGTCTCTCTGTTCCTGT	2698
DB	1811	TGTGCTTCTATTATGCTGGCTCCCTGGCAGCAGGTAGTGGCAGCCTCTATGGCTTCTTTG	1870
QY	2699	GCCAGCCAGCCCTGCCGATGCTCTGGCCAGCAGCCCTTGTGCCACTCCCGCTCAGG	2758
DB	1871	GGGAACCCACAAGCCCTCGCTGTGTGTCA GCCCAGGCCCTTTGGCCCTTGGTTTCAACA	1930
QY	2759	GCTGCCTGAGCACACTCTTCTCGCAGGGCGCCGAGATCTTCGTGGAGTCAGAACTGCCTC	2818
DB	1931	TCCTTCCTGTCTCGCTGACATTCGCTCATTCCACTAAATCATCTTCAAGTTTTCCA	1990
QY	2819	TGAGCTGGGCAGACCGGTGAGTGGCTGCTCTCGCGGGGGCCCTGGGCTGTGTGTGGTGC	2878
DB	1991	CCAAGGTACCTTACATTACCAACGCTGGGTCCAAAACCAAGGTGCTGGCTGTTTGTGA	2050
QY	2879	TGCTGGCCATGCTGGTGGAGGTGCGCATGTGTGCACTGGTGGCTTCCCGCCGG	2938

Db 2051 TGATCAGCTCAGCGGCCAGCTCTTATCTGTCTAACTTGGCTGGTGTGACCCAC 2110
QY 2939 AGGTGTGACGACTGGCAATGCTGCCACGAGCGCTGTGTGCACTGCCGACACGCT 2998
Db 2111 TGCGTCTAGGGAATACCAAGCGCTTCCGCCATCTGGTGATGCTTGAATGACAGACCA 2170
QY 2999 CTTGGGTGAGTTCGGCTTAGCGCAGCCACCAATGCCAGCTGGCTTCTCTGCTTCC 3058
Db 2171 ACTCCCTGGGCTTCATACCTGGGCTTCCCTTACAATGGCTCTCTTCCATCACTGAGTGTG 2230
QY 3059 TGGGCACTTCTCTGTGTGGAGCGAGCGGCTGTCTACAACCGTGGCCGTGGCTCACCT 3118
Db 2231 CTTGACAGTACCTTGGGTAAAGACTTGGCAGAGAACTACAAGAGGCAATGTGACCT 2290
QY 3119 TTGCCATGTGGGCTACTTTCATCAGCTGGGTCTCTTTGTGGCCCTCTCTGGCCAAATGTGC 3178
Db 2291 TCAGCGCTGTCTTCAACTTGTGTCTGTGATCGCTTCTTCAACGCGCAGCGTCTAGC 2350
QY 3179 AGGTGTCTCAGGCGCGGTGACAGATGGGCGCCCTCTGCTGTGTCTGGGATCC 3238
Db 2351 ACGGCAAGTACCTGCTCGCGGCCAACATGATGGCTGGGCTGAGCAGCTGAGCAGCGGT 2410
QY 3239 TGGCTGCTTCCACCTGCCAGGTGTACCTGCTCATGGCAGCGAGGCTCAACACCC 3298
Db 2411 TCGTGGGTATTTTCTGCTTAAGTGTACGTGATCTCTCGCGCCAGACCTCAACAGCA 2470
QY 3299 CCGAGTCTTCTCTGG 3313
Db 2471 CAGAGCACTTCCAGG 2485

RESULT 5

US-09-162-021B-1
; Sequence 1, Application US/09162021B
; Patent No. 6337391
; GENERAL INFORMATION:
; APPLICANT: H. William Harris
; APPLICANT: Edward M. Brown
; APPLICANT: Steven C. Hebert
; TITLE OF INVENTION: Polycation-Sensing Receptor in Aquatic
; TITLE OF INVENTION: Species and Methods of Use Thereof
; FILE REFERENCE: 2856.1001-007
; CURRENT APPLICATION NUMBER: US/09/162,021B
; CURRENT FILING DATE: 1998-09-28
; PRIOR APPLICATION NUMBER: PCT/US97/05031
; PRIOR FILING DATE: 1997-03-27
; PRIOR APPLICATION NUMBER: 08/622,738
; PRIOR FILING DATE: 1996-03-27
; NUMBER OF SEQ ID NOS: 19
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 1
; LENGTH: 4134
; TYPE: DNA
; ORGANISM: squalus acanthias
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (439)...(3522)
US-09-162-021B-1

Query Match 3.2%; Score 112.4; DB 3; Length 4134;
Best Local Similarity 46.3%; Pred. No. 3.6e-11;
Matches 408; Conservative 0; Mismatches 471; Indels 3; Gaps 1;
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Db 2194 GATGCAAGTGGCTGTACAAGTCCCGAATGATTTCTGTGCAATGAGAACACACGTCG 2253
QY 2482 TGCTTCCCGCGAGGTCTCGGTTCTTGGCATGGGCGAGCCGGCTGTGCTGTGCTGTCTC 2541
Db 2254 TGCATGCCAAGAGATCGAGTACCTGTCTGTGACGAGGCCCTTCGGGATCGCTCTGACC 2313
QY 2542 CTGCTGCTAGCGCTGGCGCTTGTGCTGGCTGTCTTGGGCTGTTCGTTCAACCAT 2601

Db 2314 ATCTTCGCGCTACTGGCATCCTGATCACCTCTCTTCTGCTGGGGTCTTTCATCAAGTTC 2373
QY 2602 CGGGAACGCCCATGCTTTCAGGCTTCGGGGGGGGCCCTTGGCTGTCTTGGCTGTGTGTC 2661
Db 2374 AGGAACACTCCCATCGTGAAGGCCAACACCGGAGTTGTCTACCTCTGCTCTTCTCC 2433
QY 2662 CTGGGCTGTGCTGCTCAGCGTCTCTGTTCCCTGGCCAGCCCGCCCTGCCCGATGC 2721
Db 2434 CTATCTGCTGCTTCTCCAGCTGCTCATCTTCATCGGCGAGCCCGGAGACTGGACCTGT 2493
QY 2722 TGGGCCCCAGCAGCCCTTGTCCACCTCCCGCTCAGGGCTGCTGAGCACAATCTTCTCTG 2781
Db 2494 CGGCTCCCGCAACCGGCTTGGCATCAGCTTGTGCTGTGATCTCTGATCTCTGCTG 2553
QY 2782 CAGGCGGCGGAGATCTTGTGAGTCAAGATGCTCTGAGTGGGCGAGACCGGTGTGAGT 2841
Db 2554 AAGACCAACCGGCTGCTGCTGTCTCGA--GGCCAAAGATCCCCCAGCCCTCCACCGC 2610
QY 2842 GGCTGCTGGGGGGCCCTGGGCTGGGTGGTGTGCTGGCCATGCTGTGGAGTTC 2901
Db 2611 AAGTGGGTGGGCTCAACCTGAGTTCCTCTGGTCTTCTCTGCTGATCTCTGCTGCAATC 2670
QY 2902 GCACCTGTGACCTGTGTACTGTGGCTTCCCGCGAGGTGGTGAACGACTGGCACATG 2961
Db 2671 GTCACTGTGATCATCTGCTCTACACCGGCTCCCTCCAGCTACAGGAACCATGAGCTG 2730
QY 2962 CTGCCCCAGGAGCGCTGTGACATGTCGCGACACGCTCTGTGGTGTGAGTTCGGCTTAGCG 3021
Db 2731 GAGGACGAGGTTCATCTTCATCACCTGCGAGGAGGCTCGCTCATGGCGTGGGCTTCTCTC 2790
QY 3022 CAGGCCACCAATGCCACGCTTCTGCTTCTGCTGGCACATTTCTGTTGGGAGC 3081
Db 2791 ATCGGCTACACTGCTCTCGCGCCATCTGCTTCTTCTGCGCTTCAAGTCCCGTAAAG 2850
QY 3082 CAGCGCGCTGTACAACGCTGGCGCTGCTCACCTTGTGGCATGCTGCGCTTACTTCATC 3141
Db 2851 CTGCGCGAGAACTTCAACGAGGCTAAGTTTCATCACCTTCAGCATGTTGATCTTCTTCTC 2910
QY 3142 ACTGGGTCTCTTTGTGCCCCCTCTGCGCAATGTGCAAGTGGTGTCTCAGGCCCGCGTG 3201
Db 2911 GTCTGATCTCTTTCATCCCGCTTATGTACGACACTACGCAAGTTTGTGTGCGCGCTG 2970
QY 3202 CAGATGGGCGGCTCTGCTCTGTGTCTGGCATCTGCGCTTCCACTTCCACTGCCAGG 3261
Db 2971 GAGGTGATTTGCCATCTCTGCGCTTCCAGCTTCCGGCTGCTGGGCTGCAATTACTTCAACAAG 3030
QY 3262 TGTTCACCTGCTCATGCGCAGCGAGGCTCAACACCCCGAG 3303
Db 3031 TGTTCATCATCTCTGTTCAAGCCGTGCCGTAAACCATCGAG 3072

RESULT 6

US-09-687-477-17
; Sequence 17, Application US/09687477
; Patent No. 6463883
; GENERAL INFORMATION:
; APPLICANT: AquaBio Product Sciences, LLC
; APPLICANT: Harris, H. William, Jr.
; APPLICANT: Russell, David R.
; APPLICANT: Nearing, Jacqueline
; APPLICANT: Betka, Marlies
; TITLE OF INVENTION: Methods for Raising Pre-Adult Anadromous
; TITLE OF INVENTION: Fish
; FILE REFERENCE: 2213.1004-000
; CURRENT APPLICATION NUMBER: US/09/687,477
; CURRENT FILING DATE: 2000-10-12
; NUMBER OF SEQ ID NOS: 23
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 17
; LENGTH: 4134
; TYPE: DNA
; ORGANISM: Dogfish Shark

Db 2434 CTCATCTGCTGCTTCTCAGCTGCTCATCTTCATCGCGAGCCACGAGGACTGGACCTGT 2493
QY 2722 CTGGCCACGAGCCCTTTGTCACCTCCCGCTCAGCGGCTGCTGAGGACACTCTTCTCTG 2781
Db 2494 CGGCTCCGCAACCGGCTTTGGCATCAGCTTCTGCTCTGCTGCTCTCTGCTCTCTGCTG 2553
QY 2782 CAGGCGGCGAGATCTTCTGAGTGCAGAACTGCTCTCAGCTGGGCGAGACCGGCTGAGT 2841
Db 2554 AAGACCAACCGGCTGCTGCTGCTTCTCGA---GGCCAAAGATCCCAAGCTTCCACCGC 2610
QY 2842 GGTCTGCTCTGGGCGGCTTGGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 2901
Db 2611 AAGTGGTGGGCTCAACCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 2670
QY 2902 GCATGTGACCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 2961
Db 2671 GTACCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 2730
QY 2962 CTGCCCACGAGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 3021
Db 2731 GAGGACGAGTCACTTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 2790
QY 3022 CAGCCACCAATGCCAGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 3081
Db 2791 ATCGGCTACCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 2850
QY 3082 CAGCGGGTGTCTACAACTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 3141
Db 2851 CTGCGGAGAACTTCAACGAGGCTAAAGTTTCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 2910
QY 3142 ACTGGGTCTCTTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 3201
Db 2911 GTCTGATCTCTTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 2970
QY 3202 CAGATGGGCGCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 3261
Db 2971 GAGGTAACTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 3030

RESULT 10

US-10-270-795-17
; Sequence 17, Application US/10270795
; Patent No. 6637371
; GENERAL INFORMATION:
; APPLICANT: AquaBio Product Sciences, LLC
; APPLICANT: Harris, H. William, Jr.
; APPLICANT: Russell, David R.
; APPLICANT: Nearing, Jacqueline
; APPLICANT: Betka, Marlies
; TITLE OF INVENTION: Methods for Raising Pre-Adult Anadromous
; FILE REFERENCE: 2213.2002-000
; CURRENT APPLICATION NUMBER: US/10/270,795
; CURRENT FILING DATE: 2002-10-11
; PRIOR APPLICATION NUMBER: US/09/687,372
; PRIOR FILING DATE: 2000-10-12
; NUMBER OF SEQ ID NOS: 23
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 17
; LENGTH: 4134
; TYPE: DNA
; ORGANISM: Dogfish Shark
US-10-270-795-17

Query Match 3.2%; Score 112.4; DB 3; Length 4134;
Best Local Similarity 46.3%; Pred. No. 3.6e-11;
Matches 408; Conservative 0; Mismatches 471; Indels 3; Gaps 1;

QY 2422 GACGACATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 2481
Db 2194 GATGCAAGTGGCTGTACAAAGTGCAGAAATGATTTCTGGTCAATGAGAACACACGCTCG 2253
QY 2482 TGTCTTCGCGCGAGTCTCGGTTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 2541
Db 2254 TGCATCGCCCAAGGAGATCGAGTACCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 2313
QY 2542 CTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 2601
Db 2314 ATCTTCGCGTACTGGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 2373
QY 2602 CGGGAAGCCACTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 2661
Db 2374 AGGAACACTCCCATCGTGAAGGCCAACACCGGAGTTTGTCTACCTGCTGCTGCTGCTGCT 2433
QY 2662 CTGGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 2721
Db 2434 CTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 2493
QY 2722 CTGGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 2781
Db 2494 CGGCTCCGCAACCGGCTTTGGCATCAGCTTCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 2553
QY 2782 CAGGCGGCGAGATCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 2841
Db 2554 AAGACCAACCGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 2610
QY 2842 GGTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 2901
Db 2611 AAGTGGTGGGCTCAACCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 2670
QY 2902 GCATGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 2961
Db 2671 GTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 2730
QY 2962 CTGCCCACGAGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 3021
Db 2731 GAGGACGAGTCACTTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 2790
QY 3022 CAGGCAACCAATGCCAGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 3081
Db 2791 ATCGGCTACCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 2850
QY 3082 CAGCGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 3141
Db 2851 CTGCGGAGAACTTCAACGAGGCTAAAGTTTCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 2910
QY 3142 ACCTGGTCTCTTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 3201
Db 2911 GTCTGATCTCTTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 2970
QY 3202 CAGATGGGCGCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 3261
Db 2971 GAGGTAACTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 3030
QY 3262 TGTACTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 3303
Db 3031 TGTACTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 3072

RESULT 11

US-10-270-876-17
; Sequence 17, Application US/10270876
; Patent No. 665318
; GENERAL INFORMATION:
; APPLICANT: AquaBio Product Sciences, LLC
; APPLICANT: Harris, H. William, Jr.
; APPLICANT: Russell, David R.
; APPLICANT: Nearing, Jacqueline
; APPLICANT: Betka, Marlies
; TITLE OF INVENTION: Methods for Raising Pre-Adult Anadromous
; FILE REFERENCE: 2213.2002-000
; CURRENT APPLICATION NUMBER: US/10/270,795
; CURRENT FILING DATE: 2002-10-11
; PRIOR APPLICATION NUMBER: US/09/687,372
; PRIOR FILING DATE: 2000-10-12
; NUMBER OF SEQ ID NOS: 23
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 17
; LENGTH: 4134
; TYPE: DNA
; ORGANISM: Dogfish Shark
US-10-270-876-17

; FILE REFERENCE: 2213.1004-000
; CURRENT APPLICATION NUMBER: US/10/270,876
; CURRENT FILING DATE: 2002-10-11
; PRIOR APPLICATION NUMBER: US/09/687,477
; PRIOR FILING DATE: 2000-10-12
; NUMBER OF SEQ ID NOS: 23
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 17
; LENGTH: 4134
; TYPE: DNA
; ORGANISM: Dogfish Shark
US-10-270-876-17

Query Match 3.2%; Score 112.4; DB 3; Length 4134;
Best Local Similarity 46.3%; Pred. No. 3.6e-11;
Matches 408; Conservative 0; Mismatches 471; Indels 3; Gaps 1;

QY 2422 GACGACATCGCTGACACCTTTTGTGGCCAGGATGAGTGTCCCGAGCGAAGCACACGC 2481
DB 2194 GATGCAAGTGCCTGTACAAAGTCCCGAATGATTTCTGTGCAATGAGAACACACACGTCG 2253
QY 2482 TGCCTCCCGCGCAGGCTCTCGGTTCTCTGGCATGGGGCGAGCCGGCTGTGTCTGTCTGCTC 2541
DB 2254 TGCATCGCAAGAGATCAGTACCTGTGTGACGAGCCCTTCGGGATCGCTCTGACC 2313
QY 2542 CTGCTGTGAGCTGCGCTGGCCCTTGTGTGCTGTCTTTGGGCTGTGTTCACCAT 2601
DB 2314 ATCTTCGCGTACTGGCATCTGATCACTCTCTGTCTGGGGTCTTCATCAAGTTC 2373
QY 2602 CGGGACAGCCACTGGTTACAGCCCTCGGGGGCCCTGGCTGTCTTGGCTGTGTGTC 2661
DB 2374 AGGAACACTCCCATCGTAAGGACCAACACCGGAGTGTCTCTACTGTCTGTCTTCTCC 2433
QY 2662 CTGGGCTGTGTGCTGAGCTGCTCTCTCTGTCAGCCAGCCCTCCCGATGC 2721
DB 2434 CTCTCTGTCTCTCTCAGCTCGCTCATCTTCATCGGCGAGCCAGGAGCTGGACCTGT 2493
QY 2722 CTGGGCTGAGCCCTTGTTCACCTCCCGCTCAGGGCTGTCTGAGCACACTCTTCTG 2781
DB 2494 CGGCTCCGCAACCGGCTTTGGCATCAGCTTCGTCTGTGATCTCTCTGATCTCTGCTG 2553
QY 2782 CAGGCGGCGAGATCTTGTGTGAGTACAGACTGCTCTGAGTGTGGCAGACGGCTGAGT 2841
DB 2554 AAGACAAACCGGCTGTGTCTTCGA---GGCAAGATCCCAACAGCTCCACCGC 2610
QY 2842 GGCTGTCTCGGGGGCCCTGGGCTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 2901
DB 2611 AAGTGGTGGGCTCAACCTGAGTTCCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 2670
QY 2902 GCACTGTGACCTGTGTAACCTGTGGCTTCCCGCGGAGGTGTGACGGACTGGCACATG 2961
DB 2671 GTCACTGTGATCATCTGGCTTACACCGGCTTCCCTCAGCTACAGGAAACCATGAGCTG 2730
QY 2962 CTGCCCACGAGGCGTGTGTGCTGACACAGCTCTGGGTGAGCTTCCGGCTAGCG 3021
DB 2731 GAGGACGAGGTCACTTCACTACCTGCGACGAGGCTCTCTCATGGCGTGGGCTTCTCTC 2790
QY 3022 CACGCCACCAATGCCAGCTGTCTTCTCTGCTTCTGGGCACTTTTCTGTGTGGGAGC 3081
DB 2791 ATCGGCTACACCTGTCTCTCGCGCATCTGTCTTCTCTCTCTCTCTCTCTCTCTCTCTCT 2850
QY 3082 CAGCGGGGTGTACAAACCTGTGGCTTCACTTTTGGCCATGTGCGCTTACTTCTATC 3141
DB 2851 CTGCGGGAGAACTTCAACGAGGTAAAGTTTCATCACCTTCAGCATGTGATCTTCTTCTATC 2910
QY 3142 ACCTGGTCTCTTTGTGGCCCTCTGCGCAATGTGACGCTGTCTCAGGCGCCGCTG 3201
DB 2911 GTCTGTGATCTCTTCAATCCCGCTATGTGACACCTACGGCAAGTTTGTGTGCGCGTGT 2970
QY 3202 CAGATGGGCGCTCTCTGTGTCTGTGGGATCTCTGGCTGCTTCCACCTTGGCCAGG 3261
DB 2971 GAGGTGATTGCCATCTCTGGCTTCCAGCTTCTGGGCTGTCTGGGCTGATTTTACTTCAACAAG 3030

QY 3262 TGTTACCTGTCTATGCGGACGAGGCTCAACACCCCGAG 3303
DB 3031 TGTTACATCATCTGTTCAGCCGTCGCTAACCATCGAG 3072

RESULT 12
US-10-268-051-7
; Sequence 7, Application US/10268051
; Patent No. 6748900
; GENERAL INFORMATION:
; APPLICANT: Harris, H. William
; APPLICANT: Jury, Steven
; APPLICANT: Russell, David R.
; APPLICANT: Nearing, Jacqueline A
; APPLICANT: Betka, Marlies
; APPLICANT: Linley, Timothy
; APPLICANT: Brown, Edward M
; TITLE OF INVENTION: Methods for Growing and Imprinting Fish Using an Odorant
; FILE REFERENCE: 2213.2004-001
; CURRENT APPLICATION NUMBER: US/10/268,051
; CURRENT FILING DATE: 2003-01-24
; PRIOR APPLICATION NUMBER: 60/328,464
; PRIOR FILING DATE: 2001-10-11
; NUMBER OF SEQ ID NOS: 13
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 7
; LENGTH: 4134
; TYPE: DNA
; ORGANISM: Squalus acanthias
US-10-268-051-7

Query Match 3.2%; Score 112.4; DB 3; Length 4134;
Best Local Similarity 46.3%; Pred. No. 3.6e-11;
Matches 408; Conservative 0; Mismatches 471; Indels 3; Gaps 1;

QY 2422 GACGACATCGCTGACACCTTTTGTGGCCAGGATGAGTGTCCCGAGCGAAGCACACGC 2481
DB 2194 GATGCAAGTGCCTGTACAAAGTGCCGAATGATTTCTGTGCAATGAGAACACACACGTCG 2253
QY 2482 TGCCTCCCGCGCAGGCTCTCGGTTCTGTGCAATGGGCGAGCGGCTGTGTCTGTCTGCTC 2541
DB 2254 TGCATCGCAAGAGATCGAGTACCTGTCTGTGACGAGCCCTTCGGATCGCTCTGACC 2313
QY 2542 CTGCTGTGAGCTGCGCTGGCCCTTGTGTGCTGTCTTTGGGCTGTGTCTTCAACCAT 2601
DB 2314 ATCTTCGCGCTACTGGGCACTCTGATCACTCTCTCTGTGTGGGGTCTTCATCAAGTTC 2373
QY 2602 CGGGACAGCCACTGGTTACGGCTCTCGGGGGGGCCCTTGGCTGTCTTGGCTGTGTGTC 2661
DB 2374 AGGAACACTCCCATCTGTAAGGCCAACCAACCGGAGTGTCTCTACTGTCTCTCTCC 2433
QY 2662 CTGGGCTGTGTCTGCTCAGGCTCTCTGTTCCTGTGGCAGCCAGCCCTGCCCCGATGC 2721
DB 2434 CTCTCTGTCTCTCTTCCAGCTCGCTCATCTTCATCGGCGAGCCCGAGGACTGGACCTGT 2493
QY 2722 CTGGGCGAGAGCCCTTGTCCACCTCCGCTCAGGGCTGCTGTGAGCACACTCTCTCTG 2781
DB 2494 CGGCTCCCGCAACCGGCTTTGGCATCAGCTTCTGTGTGATCTCTCTGATCTCTGTG 2553
QY 2782 CAGGCGGCGAGATCTTCTGTGAGTACAGAACTGCTCTGAGCTGGGCGAGACCGGCTGAGT 2841
DB 2554 AAGACAAACCGGCTGTCTGTCTTCGA---GGCAAGATCCCAACAGCTCCACCGC 2610
QY 2842 GCTGCTGTGAGGCTGTGTGCTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 2901
DB 2611 AAGTGGTGGGCTCAACCTGAGTTCCTCTCTGTCTCTCTCTCTCTCTCTCTCTCTCTCT 2670
QY 2902 GCACTGTGACCTGTGTAACCTGTGGCTTCCCGCGGAGGTGTGACGGACTGGCACATG 2961
DB 2671 GTCACTGTGATCATCTGGCTTACACCGGCTTCCCTCAGCTACAGGAAACCATGAGCTG 2730
QY 2962 CTGCCCACGAGGCGCTGTGTGCTGACACAGCTCTGGGCTGAGCTTCCGGCTTAGCG 3021

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Db	2194	GATGCAAGTGGCGTGTACAAAGTGCAGAAATGATTTCTGGTCTGATGAGAACCAACGCTGC	2253
Qy	2482	TGCTTTCGCGCAGGTCTCGGTCTCTGGCATGGGGCGAGCGGCTGTGCTGCTGCTGCTC	2541
Db	2254	TGCATCGCCAAAGAGATCGAGTACTGTCTGTGAGCGAGGCCCTTCGGGATCGCTCTGACC	2313
Qy	2542	CTGCTGTGAGCTTGGCGCTGGGCTTTGTGCTGGCTCTTTTGGGGCTGTTCGTTACCAT	2601
Db	2314	ATCTTCGCGTACTGGGCATCTCATCACTCTCTTCTGTGCTGGGGTCTTTCATCAAGTTC	2373
Qy	2602	CGGACAGCCACTGGTTCAGGCCCTCGGGGGGCCCCCTGGCTGTCTTGGCTCGGTGTGC	2661
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Qy	2662	CTGGGCTGTGCTGCCTCAGCGTCTCTCTGTTCCTGGCCAGCCAGCCCTCGCCGATGC	2721
Db	2434	CTCATCTGCTGCTTCTCAGCTCGCTCATCTTTCATCGGCGAGCCAGGACTGGACCTGT	2493
Qy	2722	CTGGCCAGAGCCCTTGTCCCACTCCGCTCAGGGGCTGCCTTGAGCACACTCTTCTCTG	2781
Db	2494	CGGCTCGGCCAACCGGCTTTTGGCATCAGCTTGTGCTGTGTGCACTCTCTGCATCTCTGGTG	2553
Qy	2782	CAGCGGCGGAGATCTTCTGTGGAGTCAGAACTGCTCTGAGCTGGGCAGACCCGGCTGAGT	2841
Db	2554	AAGACCAACCGGGTCTCTGGTCTTGA---GGCCAAAGATCCCCACAGCTCCACCCG	2610
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Qy	2902	GCATGTGCACTGATCTGTAACCTGTGGCTTCCCGCGAGGTGTGTGACGGACTGGCACATG	2961
Db	2671	GTCACCTTGATCATCTGGCTCTACACCGGCTCCCTCAGCTACAGAAACATGAGCTG	2730
Qy	2962	CTGCCACGGAGGCGCTGGTGCATCTGCGCACAGCTCCTGGGTTCAGCTTCGGCCTAGCG	3021
Db	2731	GAGGACGAGGTCACTTTCATCACCTGCGACGAGGGCTCGCTCATGGCGCTGGGCTTCCCTC	2790
Qy	3022	CACGCCAACAATGCCAGCTGGCGCTTCTCTGCTTCTCTGGGCATCTTCTGTGCGGAGC	3081
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Qy	3082	CAGCGGGCTGCTACAAACCGGTGCGGCTCACCTTTCGCATGTCTGGGCTACTTTCATC	3141
Db	2851	CTGCGGAGAACTTCAACGAGGCTAAGTTCATCACCTTCAGCATGTTGATCTTCTTCACTC	2910
Qy	3142	ACCTGGGTCTCTTTGTGCGCCCTCTCTGGCCAAATGTGCAGGTGTCTCTCAGGCGCGCGTG	3201
Db	2911	GTCGTGATCTCTTTCATCCCCCGCTATGTGAGCACTTACGGCAAGTTTGTGTGGCGGTG	2970
Qy	3202	CAGATGGCGGCTCTCTGCTCTGTGCTCTGGGCATCTCTGGCTCTCCACCTGCCCAGG	3261
Db	2971	GAGGTGATTGCCATCTCTGGCTCAGCTTTCGGGCTGTCTGGGCTGCACTTACTTCAACAG	3030
Qy	3262	TGTTACTCTGCTCATGCGGCACCGAGGCTCAAAACCCCCGAG	3303
Db	3031	TGTTTACATCATCTGTTTCAAGCCGTGCGGTAAACACCATCGAG	3072

RESULT 15

RESOL 13
US-09-695-481-3

; Sequence 3, Application US/09695481

; Patent No. 6534287

GENERAL INFORMATION:

APPLICANT: STORMANN, THOMAS M.

; APPLICANT: LEVINTHAL, CYNTHIA

APPLICANT: STORJOHANN, LAURA

; APPLICANT: HAMMERLAND, LANCE G.

APPLICANT: KRAPCHO, KAREN J.

APPLICANT: NPS PHARMACEUTICALS, INC.

; TITLE OF INVENTION: A NOVEL HUMAN METABOTROPIC GLUTAMATE RECEPTOR

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1 FILE REFERENCE: 1094.2.6
2 CURRENT APPLICATION NUMBER: US/09/695,481
3 CURRENT FILING DATE: 2000-10-24
4 PRIOR APPLICATION NUMBER: 60/161,481
5 PRIOR FILING DATE: 1999-10-25
6 NUMBER OF SEQ ID NOS: 7
7 SOFTWARE: PatentIn Ver. 2.1
8 SEQ ID NO 3
9 LENGTH: 2925
10 TYPE: DNA
11 ORGANISM: Artificial Sequence
12 FEATURE:
13 NAME/KEY: CDS
14 LOCATION: (1)..(2925)
15 OTHER INFORMATION: Description of Artificial Sequence:Chimeric
16 OTHER INFORMATION: molecule comprising portions of the human calcium
17 OTHER INFORMATION: receptor and human mGluR5d.
18 US-09-695-481-3
19

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Query Match 3.1%; Score 111; DB 3; Length 2925;

Best Local Similarity 51.7%; Pred. No. 6.2e-11;

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Db	490	CAGTTCAGTTATGCTCTCTCAGCAGACTCTCTAGCAACAAGAAATCAATTCAAGTCCTTC	549
Qy	998	TTCCGCACCGTGCCACGACCGGTGTGCAGCTGCAGCGGCCGCGGAGCTGCTCAGAG	1057
Db	550	CTCCGAACCATCCCAATGATGAGCACGAGGCCACTGCGCATGGCAGACATCATCGATAT	609
Qy	1058	TTCCGCTGGAACTGGGTGGCCGCTCTGGGCAGCGACGACGAGTACGGCCGGCAGGGCGTG	1117
Db	610	TTCCGCTGGAACTGGGTGGGCACAAATTGCAGCTGATGACGACTATGGCGCGCCGGGAT	669
Qy	1118	AGCATCTTCTCGGCCCTGGCCGGCAGCGGGCATCTGCATCGCGCAGCAGGGGCTGGTG	1177
Db	670	GAGAAATTTCCGAGAGGAAGCTGAGGAAAGGGATATCTGCATTCGACTTCAGTGAATCATC	729
Qy	1178	CCGCTGCCCGTGCAGATGACTCGCGCTGGGGAAGGTGCAGGACGCTCTGCACACAGTG	1237
Db	730	TCCCAGTACTCTGATGA-----GGAGAGATCCAGCATGTGTTAGAGGTGATT	777
Qy	1238	AACACAGACGAGCTGCAGGTGGTCTGCTGTTCCTCCGCTGCACGCCGCCACGCCCTC	1297
Db	778	CAAAATTTCCACGGCCAAAGTCATCGTGGTTTTCTCCAGTGGCCCGAGATCTTGAGCCCTC	837
Qy	1298	TTCAACTACAGCATCAGCAGCAGCTCTGCCCAAGGTGTGGGTGGCCGCGAGCGCTGG	1357
Db	838	ATCAAGAGAGATTTGTCGGCGCAATATCACGGGCAAGATCTGGCTGGCCGACGAGCGCTGG	897
Qy	1358	CTGACCTCTGACCTGGTTCATGGGGCTCCCGGCATGGCCACAGATGGGCACGGTCTGGC	1417
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Qy	1418	TTCTCTCCAGAGGGTGCCAGCTGCACGAGTTCCCCAGTACGTGAAGACGACCTGGCC	1477
Db	958	TTGCTCTGAAGGCTGGCAGATCCACAGGCTTCGGGAAATTCCTGAAGAAGGTCCATCCC	1017
Qy	1478	CTGGCCACCGACC	1490
Db	1018	AGGAAGTCTGTCC	1030

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search completed: 100%
Job time : 610 secs

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h+lr2

GenCore version 5.1.7
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OM protein - protein search, using sw model

Run on: February 11, 2006, 22:57:26 ; Search time 29 Seconds
(without alignments)
2391.893 Million cell updates/sec

Title: US-10-035-045-21
Perfect score: 4443
Sequence: 1 MGPRAKTICSLFLLWLAE.....ERNTPAYFNSMIGQVTMRD 839

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 572060 seqs, 82675679 residues

Total number of hits satisfying chosen parameters: 572060

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

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2: /cgn2_6/prodata/1/iaa/6 COMB.pep.*
3: /cgn2_6/prodata/1/iaa/H COMB.pep.*
4: /cgn2_6/prodata/1/iaa/PTUS COMB.pep.*
5: /cgn2_6/prodata/1/iaa/RE COMB.pep.*
6: /cgn2_6/prodata/1/iaa/backfiles1.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
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2	3463.5	78.0	669	2	US-09-361-631-7
3	3231	72.7	843	2	US-09-361-631-1
4	3179	71.6	843	2	US-09-361-631-2
5	1351.5	30.4	841	2	US-09-897-427A-2
6	1092.5	24.6	1059	2	US-09-134-513-2
7	1089	24.5	1027	2	US-09-162-021B-2
8	1089	24.5	1027	2	US-10-268-051-8
9	1089	24.5	1027	2	US-10-125-772-2
10	1079.5	24.3	1078	1	US-08-485-588-7
11	1079.5	24.3	1078	1	US-08-484-565-7
12	1079.5	24.3	1078	1	US-08-480-751-7
13	1079.5	24.3	1078	1	US-08-943-986-7
14	1079.5	24.3	1078	2	US-08-353-784-7
15	1079.5	24.3	1078	2	US-08-484-719B-7
16	1079.5	24.3	1078	2	US-08-484-159-7
17	1075	24.2	1079	1	US-08-485-588-8
18	1075	24.2	1079	1	US-08-484-565-8
19	1075	24.2	1079	1	US-08-480-751-8
20	1075	24.2	1079	1	US-08-943-986-8
21	1075	24.2	1079	2	US-08-353-784-8
22	1075	24.2	1079	2	US-08-484-719B-8
23	1075	24.2	1079	2	US-08-484-159-8
24	1075	24.2	1085	1	US-08-485-588-5
25	1075	24.2	1085	1	US-08-484-565-5
26	1075	24.2	1085	1	US-08-480-751-5
27	1075	24.2	1085	1	US-08-943-986-5

28	1075	24.2	1085	2	US-08-353-784-5	Sequence 5, Appli
29	1075	24.2	1085	2	US-08-484-719B-5	Sequence 5, Appli
30	1075	24.2	1085	2	US-08-484-159-5	Sequence 5, Appli
31	1065.5	24.0	1078	2	US-10-125-772-28	Sequence 28, Appli
32	1064.5	24.0	1088	1	US-08-485-588-6	Sequence 6, Appli
33	1064.5	24.0	1088	1	US-08-484-565-6	Sequence 6, Appli
34	1064.5	24.0	1088	1	US-08-480-751-6	Sequence 6, Appli
35	1064.5	24.0	1088	1	US-08-943-986-6	Sequence 6, Appli
36	1064.5	24.0	1088	2	US-08-353-784-6	Sequence 6, Appli
37	1064.5	24.0	1088	2	US-08-484-719B-6	Sequence 6, Appli
38	1064.5	24.0	1088	2	US-08-484-159-6	Sequence 8, Appli
39	1051	23.7	941	2	US-10-125-772-8	Sequence 10, Appli
40	1044	23.5	941	2	US-10-125-772-10	Sequence 12, Appli
41	1020	23.0	850	2	US-10-125-772-12	Sequence 6, Appli
42	1014.5	22.8	852	2	US-09-897-427A-6	Sequence 2, Appli
43	1006	22.6	877	2	US-09-619-353-2	Sequence 6, Appli
44	994.5	22.4	1219	1	US-08-687-289A-6	Sequence 6, Appli
45	994.5	22.4	1219	2	US-09-435-897-6	Sequence 6, Appli

ALIGNMENTS

RESULT 1

US-09-897-427A-4
; Sequence 4, Application US/09897427A
; Patent No. 6955887
; GENERAL INFORMATION:
; APPLICANT: ADLER, JON ELLIOT
; APPLICANT: LI, XIADONG
; APPLICANT: STAZEWSKI, LENA
; APPLICANT: XU, HONG
; APPLICANT: EHEVERRI, FERNANDO
; TITLE OF INVENTION: T1R HETERO-OLIGOMERIC TASTE RECEPTORS
; FILE REFERENCE: 078003-0282558
; CURRENT APPLICATION NUMBER: US/09/897,427A
; CURRENT FILING DATE: 2001-07-03
; SOFTWARE: Patentin Ver. 2.1
; SEQ ID NO 4
; LENGTH: 839
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-897-427A-4

Query Match	100.0%;	Score 4443;	DB 2;	Length 839;
Best Local Similarity	100.0%;	Pred. No. 0;		
Matches 839;	Conservative 0;	Mismatches 0;	Indels 0;	Gaps 0;
QY	1	MGPRAKTICSLFLLWLAEPAENSDFYLPDGYLLGGLFSLHANMKGIVHLNFIQVPMCK	60	
DB	1	MGPRAKTICSLFLLWLAEPAENSDFYLPDGYLLGGLFSLHANMKGIVHLNFIQVPMCK	60	
QY	61	EYEVKVGYNLMQAMFAVEEINNDSSLLPGVLLGVEIVDVCYISNNVQVLYFLAHEDN	120	
DB	61	EYEVKVGYNLMQAMFAVEEINNDSSLLPGVLLGVEIVDVCYISNNVQVLYFLAHEDN	120	
QY	121	LLPIQEDYNSYISRVAVVIGPDNSESVMTVANFSLFLPQITYSAISDELDRKVRFPAL	180	
DB	121	LLPIQEDYNSYISRVAVVIGPDNSESVMTVANFSLFLPQITYSAISDELDRKVRFPAL	180	
QY	181	LRTPPSADHHEAVMQLMLHFRWNWIIIVSSDTYGRDNGQLLGERVARRDICIATFOETL	240	
DB	181	LRTPPSADHHEAVMQLMLHFRWNWIIIVSSDTYGRDNGQLLGERVARRDICIATFOETL	240	
QY	241	PTLQPNQNTSEERQRLVTIVDKLQOSTARVVVVFSPDLTLXHFNFVLRQNTFTGAVWIA	300	
DB	241	PTLQPNQNTSEERQRLVTIVDKLQOSTARVVVVFSPDLTLXHFNFVLRQNTFTGAVWIA	300	
QY	301	SESWAIDPVHLNLTGLHGTFTGITITQSVPIPGFSEFEWGPQAGPPPLSRTSQSTYTCN	360	
DB	301	SESWAIDPVHLNLTGLHGTFTGITITQSVPIPGFSEFEWGPQAGPPPLSRTSQSTYTCN	360	

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QY 361 QECDCNCLNATLSFNTILRLSGERVVYVSAYAVAHALHSLGCDKSTCTKRVVYPWQL 420
DB 361 QECDCNCLNATLSFNTILRLSGERVVYVSAYAVAHALHSLGCDKSTCTKRVVYPWQL 420
QY 421 LEEIKWVNTLLDHOIFPDPOGDVALHLEIVQWQDRSNPQSVASVYYPQRLQKNIQD 480
DB 421 LEEIKWVNTLLDHOIFPDPOGDVALHLEIVQWQDRSNPQSVASVYYPQRLQKNIQD 480
QY 481 ISWHTVNNNTIPMSMCKRCQSGOKKPKVGIHVCCFECIDCLPGTFLNHTDEYEQACP 540
DB 481 ISWHTVNNNTIPMSMCKRCQSGOKKPKVGIHVCCFECIDCLPGTFLNHTDEYEQACP 540
QY 541 NEWSYQSETSCFKROLVLEWHEAPTIAVALLAALGFLSTLAILVIFWRHFOTPIVRSG 600
DB 541 NEWSYQSETSCFKROLVLEWHEAPTIAVALLAALGFLSTLAILVIFWRHFOTPIVRSG 600
QY 601 GPMCFMLTLLVAVYVVPVYVGGPKVSTCLCRQALFPLCFTICISIAVRSFQIVCAFK 660
DB 601 GPMCFMLTLLVAVYVVPVYVGGPKVSTCLCRQALFPLCFTICISIAVRSFQIVCAFK 660
QY 661 MASRPFRAYSYVRYOGPVSMFATVLKQVIVIGMLATGLSPTRTDPDPDKITIVSC 720
DB 661 MASRPFRAYSYVRYOGPVSMFATVLKQVIVIGMLATGLSPTRTDPDPDKITIVSC 720
QY 721 NPYRNSLLFNSTLSDLLSVGFSFAYMGKELPTNYNEAKPITLSMTFYFTSSVSLCTFM 780
DB 721 NPYRNSLLFNSTLSDLLSVGFSFAYMGKELPTNYNEAKPITLSMTFYFTSSVSLCTFM 780
QY 781 SAYSGVLVTIVDLLVTVLNLALSLGYFGPKCYMILFPERNTPAYFNSMIOGYTMRD 839
DB 781 SAYSGVLVTIVDLLVTVLNLALSLGYFGPKCYMILFPERNTPAYFNSMIOGYTMRD 839

RESULT 2
US-09-361-631-7
; Sequence 7, Application US/09361631
; Patent No. 6383778
; GENERAL INFORMATION:
; APPLICANT: Zuker, Charles S.
; APPLICANT: Adler, Jon Elliot
; APPLICANT: Lindemeier, Juergen
; APPLICANT: The Regents of the University of California
; TITLE OF INVENTION: Nucleic Acids Encoding a G-Protein Coupled Receptor
; FILE REFERENCE: 02307E-088720US
; CURRENT FILING DATE: 1999-07-27
; EARLIER FILING DATE: 1998-07-28
; EARLIER FILING DATE: 1998-07-28
; EARLIER FILING DATE: 1998-12-17
; NUMBER OF SEQ ID NOS: 10
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 7
; LENGTH: 669
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; OTHER INFORMATION: human G-protein coupled receptor (GPCR) B4 amino
; OTHER INFORMATION: acid sequence
US-09-361-631-7

Query Match 78.0%; Score 3463.5; DB 2; Length 669;
Best Local Similarity 97.5%; Pred. No. 0;
Matches 661; Conservative 1; Mismatches 7; Indels 9; Gaps 3;
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QY 162 ITYSAISDELKRVKFPALLRTPSADHHVEAMVQLMHLFRNWIIVLVSSDTYGRDNGQ 221
DB 1 ITYSAISDELKRVKFPALLRTPSADHHVEAMVQLMHLFRNWIIVLVSSDTYGRDNGQ 60
QY 222 LLGERVARDICIAFQETLPTLPQNMNTSEERQRLVTIVDKLOQSTARVVVFPDITL 281
DB 61 LLGERVARDICIAFQETLPTLPQNMNTSEERQRLVTIVDKLOQSTARVVVFPDITL 120
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QY 282 YHFNELVRQNTGAVWIASRSWALDPVLHNLTELGHILGTFLGITIQSVPVPGSFSEFRM 341
DB 121 YHFNELVRQNTGAVWIASRSWALDPVLHNLTELGHILGTFLGITIQSVPVPGSFSEFRM 180
QY 342 GPQAGPPPLSRTSQSYTCNQECDCNCLNATLSFNTILRLSGERVVYVSAYAVAHALHS 401
DB 181 GPQAGPPPLSRTSQSYTCNQECDCNCLNATLSFNTILRLSGERVVYVSAYAVAHALHS 240
QY 402 LLGCKSTCTKRVVYPWQLLEEIKWVNTLLDHOIFPDPOGDVALHLEIVQWQDRSNP 461
DB 241 LLGCKSTCTKRVVYPWQLLEEIKWVNTLLDHOIFPDPOGDVALHLEIVQWQDRSNP 300
QY 462 FQSVASYPLQRLQKNIQDI SWHTVNNNTIPMSMCKRCQSGOKKPKVGIHVCCFECIDCL 521
DB 301 FQSVASYPLQRLQKNIK-TSLHTVNNNTIPMSMCKRCQSGOKKPKVGIHVCCFECIDCL 359
QY 522 PGTFLNHTDEYEQACPNNEWSYQSETSCFKROLVLEWHEAPTIAVALLAALGFLSTL 581
DB 360 PGTFLNHTDEYEQACPNNEWSYQSETSCFKROLVLEWHEAPTIAVALLAALGFLSTL 412
QY 582 AILVIFWRHFOTPIVRSGGPMCFMLTLLVAVYVVPVYVGGPKVSTCLCRQALFPLCF 641
DB 413 AILVIFWRHFOTPIVRSGGPMCFMLTLLVAVYVVPVYVGGPKVSTCLCRQALFPLCF 472
QY 642 TICISIAVRSFQIVCAFMASRPFRAYSYVRYOGPVSMFATVLKQVIVIGMLATG 701
DB 473 TICISIAVRSFQIVCAFMASRPFRAYSYVRYOGPVSMFATVLKQVIVIGMLARP 532
QY 702 LSPTRTDPDPDKITIVSCNPYRNSLLFNSTLSDLLSVGFSFAYMGKELPTNYNEAKF 761
DB 533 QS-HPRTPDPPDKITIVSCNPYRNSLLFNSTLSDLLSVGFSFAYMGKELPTNYNEAKF 591
QY 762 ITLSMTFYFTSSVSLCTFMSAYSGVLVTIVDLLVTVLNLALSLGYFGPKCYMILFYPER 821
DB 592 ITLSMTFYFTSSVSLCTFMSAYSGVLVTIVDLLVTVLNLALSLGYFGPKCYMILFYPER 651
QY 822 NTPAYFNSMIOGYTMRD 839
DB 652 NTPAYFNSMIOGYTMRD 669
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RESULT 3
US-09-361-631-1
; Sequence 1, Application US/09361631
; Patent No. 6383778
; GENERAL INFORMATION:
; APPLICANT: Zuker, Charles S.
; APPLICANT: Adler, Jon Elliot
; APPLICANT: Lindemeier, Juergen
; APPLICANT: The Regents of the University of California
; TITLE OF INVENTION: Nucleic Acids Encoding a G-Protein Coupled Receptor
; FILE REFERENCE: 02307E-088720US
; CURRENT FILING DATE: 1999-07-27
; EARLIER FILING DATE: 1998-07-28
; EARLIER FILING DATE: 1998-07-28
; EARLIER FILING DATE: 1998-12-17
; NUMBER OF SEQ ID NOS: 10
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 1
; LENGTH: 843
; TYPE: PRT
; ORGANISM: Rattus sp.
; FEATURE:
; OTHER INFORMATION: rat G-protein coupled receptor (GPCR) B4 amino
; OTHER INFORMATION: acid sequence
US-09-361-631-1
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Query Match 72.7%; Score 3231; DB 2; Length 843;
Best Local Similarity 70.8%; Pred. No. 3e-299;
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[illegible]

Qy	597	RSAGGPMCFMLTLLVAYMVPVYVGGPKYSTLCRALPPLCFITCISCIAYRSFQIV	655
Db	601	RSAGGPMCFMLVPLLALFAGVYVYVGGPPTVFCFCRQAFVFCFSVCLSCITVRSFQIV	660
Qy	657	CAFKWASRFRPRAYSWYRYOQPYYSMAFITVLKWVIVVIGMLATGLSPTRTRDDPKIT	716
Db	661	CVFKWARRLPsAYGFMRYHGYVVFVAFITAKVKVALVAGNMLATTINPIGRTRDDPNII	720
Qy	717	IVSCNPNYRNSLLFNSTSLDLLLSVVVGFSFAYMGKELPTNYNEAKFITLSMTFYFTSSVSL	776

Db 721 ILSCHPNYRNGLLFNNTSMDLLSVLGFSPAYVKGKLPNTYNEAKFITLSMTFSTSSISL 780
Qy 777 CTFMSAYSGVLVTIVDLVTVNLALASLGYPGPKCYMILFYPERNTPAYFNSMIOGYTM 836
Db 781 CTFMSVGHVGLVTIMDLVTVNLFLAIGLGYGPKCYMILFYPERNTSAYFNSMIOGYTM 840
Qy 837 RR 838
Db 841 RK 842
RESULT 5
US-09-897-427A-2
; Sequence 2, Application US/09897427A
; Patent No. 6955887
; GENERAL INFORMATION:
; APPLICANT: ADLER, JON ELLIOT
; APPLICANT: LI, XIADONG
; APPLICANT: STAZENSKI, LENA
; APPLICANT: XU, HONG
; APPLICANT: EHEVERRI, FERNANDO
; TITLE OF INVENTION: TIR HETERO-OLIGOMERIC TASTE RECEPTORS
; FILE REFERENCE: 078003-0282558
; CURRENT APPLICATION NUMBER: US/09/897,427A
; CURRENT FILING DATE: 2001-07-03
; NUMBER OF SEQ ID NOS: 10
; SOFTWARE: Patent In Ver. 2.1
; SEQ ID NO 2
; LENGTH: 841
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-897-427A-2

Query Match 30.4%; Score 1351.5; DB 2; Length 841;
Best Local Similarity 37.5%; Pred. No. 1.1e-119;
Matches 315; Conservative 131; Mismatches 354; Indels 41; Gaps 17;

Qy 16 WVLA-EPAENS-DFVLPGDYLGLGFLSHANNKGVHNLFLQVPMC-KEYEVKVIQYNLM 72
Db 19 WAFACHSTESSPDFLPDYLGLAGLPLHSGCLQVRHRP--EVLCDRSCSFNEHGYHLF 76
Qy 73 QAMRFAVEINNDSSLLPGLVGYEIVDVYISNNQPVLYFLA---HEDNLLPIQSDY 128
Db 77 QAMRGVBEINNSTALLFNITLGYQYDVCSANVYATLRVLSPGQH---ISLQGD 133
Qy 129 SNYISRVAVIGPDNSESVMTVANFLSLFLPQITYSAISDELDRKVRFPALLRTTPSAD 188
Db 134 LHYSPVLAVIGPDSTNRAATTAALLSPFLVPMISYAASETLSVKRQYPSFLRTIPNDK 193
Qy 189 HHVEAMVOLMLHFRWNWIIVLVSDTYGRDNGQLLGERVARDICIAFOETLP-TLQPNQ 247
Db 194 YQVETMVLLLQKFGTWISLVGSSDDYGLGVQALENQATGQIGICIAFKDIMPFSAQVGD 253
Qy 248 NMTSEERQLVTIVDKLOASTARVVVFPSPDLTLHFFNEVLNQFTGAVMTASESWAID 307
Db 254 -----ERMQCLMHLAQAQATVVVVFSSRLARVFPESVVLTLTKGVVWVASEAWLS 306
Qy 308 PVLHNLTLGLHGLTGLGITQVPIPGFSEFEWGPQA---GPPPLSRTSQTNYCNQBCD 364
Db 307 RHITGVPGIQRIGMVLGVAIOKRAVPGUKAFEAAYARADKKAPRCHKGSWC-SSNQLCR 365
Qy 365 NCLNATLSFNTILRSLGRVTVSVTVAVAHALSHLLGCDKSTCTKRVVYPWQLLEI 424
Db 366 EQQAFMAHTMPKXKAFMSSSAYNAYRAVYVAHGLHQLLGCSAGACSRGVYPWQLLEI 425
Qy 425 WKVNFLLDHOJFFPDQGGVALHLEIVOWDRSNQFQSVAS--YYPLQROLKNIQDIS 482
Db 426 HKVHFLHLLKDTVAFNDNRDPLSSYNIIAWMNGPRWTFVLGSSTWSPVQLNI-NETKIQ 484
Qy 483 WHTVNTTIPMSKCRSGQKQKVPVGHVCCFECIDCLPGFTFLNHTDEYECQACPNNE 542
Db 485 WHGKDNQVPKSVSCSDCLEGHQRVVTGPHHCCFECVPCGAGTFLNKS-DLYRCQPCGKEE 543

Qy 543 WSYQSETSCFKRQLVFLFEMHEAPTIAVALLAALGFLSTLAILVIFWRHFQTPIVERSAGP 602
Db 544 WAPEGSQFCFRTVVFLALREHTSMVLLAANTLLLLLLGTAGLFAWHLDPVVSAGR 603
Qy 603 MCFMLMTLLLVAYVMVVPVYVGGPKVSTCLCQALFPLCLCTICISCIAVSFQIVCAFQMA 662
Db 604 LCFLMLGSLAAGSGSLYGFGEPTRPACLLQALFALGFTIFLSCLTVRSFQLIIIFKFS 663
Qy 663 SRPFRAYSWVRYOGPYVSMAPITVLKMIIVVIGMLATGLSPTRTDDPKITIVSNP 722
Db 664 TKVPTFYHAWYQNHGAGLFVMISSAAQLLICLTMLVVMVTPLP-AREYQRFPHLVNLECTE 722
Qy 723 NYRNSL-----LFNSTLDDLVSVGFSAFYMKGELPTNYNEAKFITLSMTFYETSSVSL 776
Db 723 T--NSLGFILAPLYNG----LLSISAFACSVLGDLPENYNEAKCVTFSLLFNFSWIAF 776
Qy 777 CTFMSAYSGVLVTIVDLVTVNLALASLGYPGPKCYMILFYPERNTPAYFNSMIOGYTM 836
Db 777 FTASVYDGKYLPAANMMAGLSLSSGFGGYFLPKCYVILCRPDLNSTEHTFQASIQDYTR 836
Qy 837 R 837
Db 837 R 837

RESULT 6

US-09-134-513-2
; Sequence 2, Application US/09134513
; Patent No. 6210964
; GENERAL INFORMATION:
; APPLICANT: Brown, Edward M.
; APPLICANT: Diaz, Ruben
; APPLICANT: Bai, Mei
; APPLICANT: Quinn, Stephen J.
; TITLE OF INVENTION: The Avian Extracellular Calcium-Sensing
; NUMBER OF SEQUENCES: 2
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Vinson & Elkins L.L.P.
; STREET: 1455 Pennsylvania Avenue, N.W.
; CITY: Washington
; STATE: D.C.
; COUNTRY: U.S.
; ZIP: 20004-1008
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/134,513
; FILING DATE:
; CLASSIFICATION:
; ATTORNEY/AGENT INFORMATION:
; NAME: Sanzo, Michael A.
; REGISTRATION NUMBER: 36,912
; REFERENCE/DOCKET NUMBER: BRI331/13003
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (202)639-6585
; TELEFAX: (202)639-6604
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1059 amino acids
; TYPE: amino acid
; STRANDEDNESS: not relevant
; TOPOLOGY: not relevant
; MOLECULE TYPE: protein
; HYPOTHEITICAL: NO
US-09-134-513-2

Query Match 24.6%; Score 1092.5; DB 2; Length 1059;
Best Local Similarity 31.9%; Pred. No. 9e-95;
Matches 284; Conservative 148; Mismatches 354; Indels 105; Gaps 25;


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QY 774 VS-LCTFMSAYSGVLVTIVDVLVTLNLLAISLGYFG-----PKCYMILFYPERNT 823
Db 827 ISFIPAYVSTY-GKFVSAVE-----VIATLASSFGLGCIYFNKCYIILFKPCRNT 876

RESULT 8
US-10-268-051-8
; Sequence 8, Application US/10268051
; Patent No. 6748900
; GENERAL INFORMATION:
; APPLICANT: Harris, H. William
; APPLICANT: Jury, Steven
; APPLICANT: Russell, David R.
; APPLICANT: Nearing, Jacqueline A
; APPLICANT: Betka, Marlies
; APPLICANT: Linley, Timothy
; APPLICANT: Brown, Edward M
; TITLE OF INVENTION: Methods for Growing and Imprinting Fish Using an Odorant
; FILE REFERENCE: 2213.2004-001
; CURRENT APPLICATION NUMBER: US/10/268,051
; CURRENT FILING DATE: 2003-01-24
; PRIOR APPLICATION NUMBER: 60/328,464
; PRIOR FILING DATE: 2001-10-11
; NUMBER OF SEQ ID NOS: 13
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 8
; LENGTH: 1027
; TYPE: PRT
; ORGANISM: Squalus acanthias
US-10-268-051-8

Query Match 24.5%; Score 1089; DB 2; Length 1027;
Best Local Similarity 31.1%; Pred. No. 1.9e-94;
Matches 278; Conservative 161; Mismatches 360; Indels 96; Gaps 26;

QY 5 AKTICSLFLLWLAEPANSDYFLP-----G DYLLGGLFSLHANM--KGIIVHLNFIQ 55
Db 2 AQLHCQLLFLGTLTIQ-SYNSGYGNQRAQKKGDIILGGLFPIHFGVAAKQDILKSPE 60

QY 56 VPMKEYEVKIVGNLMQAMFPAVEEINNDSLLPGVLGVEIVDVC-YISNNVQPVLYF 114
Db 61 ATKIRYNFR--GFRWLQAMFAIEEINNMTFLNITLGYRIFDTCNTVSKALEATLSF 118

QY 115 LA-HEDNLLPIQE--DYSNYISRVVAVICPNSESVMVTVANFLSLFLPQITYSAISDEL 171
Db 119 VAQNKIDSLNLDDEFNCSDHIPSTIAVVGATSGSGISTAVANLLGLFYIPQVSYASSRLL 178

QY 172 RDKVRFPALLRTTPSADHHVAMVQLMHLFRWNWIIIVLSSDPTYGRDNGQLGERVARRD 231
Db 179 SNKNEYKAFRTIPNDEQOATAMAEIIEHFQWNWVGTTLAADDYGRPGIDKPREAVKRD 238

QY 232 ICIAFQETLPTIQNNMTSEBQRBLVTIVDKLQOSTARVVVVFSPDLTLVHFFNEVLQR 291
Db 239 ICIDFSEMI-----SQYIT---QKLEFIADVIQNSAKVIVVFNPGDLELIQEIYVR 290

QY 292 NPTGAVWTASEWADPVLHNLTEGLHGTGFTIGITIQSVPIPGPSEPRE-----340
Db 291 NITDRWLASEAWASSSLIAKPEYFHVVGTTIGFALRAGRIPGFNKLKEVHPSPSSONG 350

QY 341 -----W-----GPOA-GPPPLSRTSQSYTCNQBCDCLNAT 370
Db 351 FVKEFEETENCYFTEKTLTQJNKNVPSHGPAAGDGSKAGNSRRRTALRHPCTCEENIT 410

QY 371 LSFNTILRSGRRVVSYSVAYVAHAHALSHLLGCDKST-----CTK-RVYVPQWLL 422
Db 411 SVETPYLDYTHLRISYNNVAVYSIAHALQDIHSCKPGTGIPANGSCADIKKVEAQVNL 470

QY 423 EIWKYNFT-LLDHQIFFPDQGVALHLEIVQWDRSQNP--FQSVASY-----YPLQRQL 475
Db 471 HLLHLKFTNSMGQVDFDQDGLKGNLYTIINWQLSAEDESVLFEHVGNYNAYAKPSDRLN 530

QY 476 KNIQDISMHTVNTNTPMSMCSKRCQSGQKKPV-GIHVCCPECIDCLPGLTFLNHTDEYE 534
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Db 531 INEKKILWSGSKVVPFNSCSDCVPGTRKGIIEGPTCCCECMACASGEF-SDENDASA 589
QY 535 COACPNNEWSYQSETSCFKROLVLEWHEAPTIAVALLAALGFLSTLAILVIFWRHFTQ 594
Db 590 CTKPNDFWSNENHTSCIAKEIEVLSWTEPGFIALTIFAVLIGILITSFVLGVFIKFRNTP 649
QY 595 IYRSAGGPMCFMLTLTLLVAYMVVYVGPVKVSTCLCROALFPLCFTICSCIAVRSFQ 654
Db 650 IVKATNRELSYLLFSLICCFSSSLIFIGEPRDWTCLRQAFAGFSFVLCISCLLVKTNR 709
QY 655 IVCAFPMASRRPRA--YSYWRVYQGPVSMATITVLKMWIVVIGMLATGLSPTRTRDDPD 713
Db 710 VLLVPE--AKIPTSLHRKWVGLNLQFL-LVFLCILVQIVTCILWLTAPPSSYRNHELED 766
QY 714 KITIVSCNPNYRNSLLFNSTLDLLSVVGFSPAYMGKELPNNYNEAKITLSMTYFTSS 773
Db 767 EVIFITCDEGSLMALGFLIGYVTCLLAAICFFFAFKSRKLPENFNEAKITFSMLFIIVW 826
QY 774 VS-LCTFMSAYSGVLVTIVDVLVTLNLLAISLGYFG-----PKCYMILFYPERNT 823
Db 827 ISFIPAYVSTY-GKFVSAVE-----VIATLASSFGLGCIYFNKCYIILFKPCRNT 876

RESULT 9
US-10-125-772-2
; Sequence 2, Application US/10125772
; Patent No. 6951739
; GENERAL INFORMATION:
; APPLICANT: MariCal
; APPLICANT: Harris, H. William
; APPLICANT: Nearing, Jacqueline A.
; APPLICANT: Betka, Marlies
; TITLE OF INVENTION: Polyvalent Cation-Sensing Receptor in Atlantic Salmon
; FILE REFERENCE: 2213.1006-006
; CURRENT APPLICATION NUMBER: US/10/125,772
; CURRENT FILING DATE: 2002-08-16
; PRIOR APPLICATION NUMBER: 10/121,441
; PRIOR FILING DATE: 2002-04-11
; PRIOR APPLICATION NUMBER: PCT/US01/31704
; PRIOR FILING DATE: 2001-10-11
; PRIOR APPLICATION NUMBER: 60/240,392
; PRIOR FILING DATE: 2000-10-12
; PRIOR APPLICATION NUMBER: 60/240,003
; PRIOR FILING DATE: 2000-10-12
; NUMBER OF SEQ ID NOS: 28
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 2
; LENGTH: 1027
; TYPE: PRT
; ORGANISM: Squalus acanthias
US-10-125-772-2

Query Match 24.5%; Score 1089; DB 2; Length 1027;
Best Local Similarity 31.1%; Pred. No. 1.9e-94;
Matches 278; Conservative 161; Mismatches 360; Indels 96; Gaps 26;

QY 5 AKTICSLFLLWLAEPANSDYFLP-----G DYLLGGLFSLHANM--KGIIVHLNFIQ 55
Db 2 AQLHCQLLFLGTLTIQ-SYNSGYGNQRAQKKGDIILGGLFPIHFGVAAKQDILKSPE 60

QY 56 VPMKEYEVKIVGNLMQAMFPAVEEINNDSLLPGVLGVEIVDVC-YISNNVQPVLYF 114
Db 61 ATKIRYNFR--GFRWLQAMFAIEEINNMTFLNITLGYRIFDTCNTVSKALEATLSF 118

QY 115 LA-HEDNLLPIQE--DYSNYISRVVAVICPNSESVMVTVANFLSLFLPQITYSAISDEL 171
Db 119 VAQNKIDSLNLDDEFNCSDHIPSTIAVVGATSGSGISTAVANLLGLFYIPQVSYASSRLL 178

QY 172 RDKVRFPALLRTTPSADHHVAMVQLMHLFRWNWIIIVLSSDPTYGRDNGQLGERVARRD 231
Db 179 SNKNEYKAFRTIPNDEQOATAMAEIIEHFQWNWVGTTLAADDYGRPGIDKPREAVKRD 238
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Db 411 YTHLRISYNYLVAVYSIAHALQDIYTCPLGRGLFTNGSCADIKKVEAMQVLKHLRLNFT 470
QY 431 -LLDHOIFPDPOGDVALHLEIVQWDRSONP--FQSVASYPL-----QRLKNIQDIS 482
Db 471 NNMGEQVTFDECGDLVGNYSIINWHLSPEDGSIVPEK--GYNVYAKKGERLFINEEKIL 529
QY 483 WHTVNTTIPMSCKRCSQKQKPV-GIHVCCFPCIDCLPCTFLNHTDEVECOACPN 541
Db 530 MSGFREVFPFNSCRDCLAGTRKGIIEGPTCCFCEVCPDGEYSDT-DASACNKCDD 588
QY 542 EWSYQSESCFQRQLVLEWHEAPTIIVALLAALGFLSTLAILVIFWRHFOTPIVRSAGG 601
Db 589 FWSNENHTSCIAKEIEFLSWTEPFGIALTLFAVLGELTAFVLGVIFKFRNTPIVKATNR 648
QY 602 PMCFLMLTLLVAVYVVPVYVGGPKVSCICLCHQALPPLCFTICISCIASVRSQIVCAF-- 659
Db 649 ELSYLLPSLLCCFSSSLFFIGEPQDWICRLQPAFGISFVLCISCIILVKTNRVLLVFEA 708
QY 660 KWASFPFPRAYSWVRYQGPVYSMAFITVLKMWIVVIGMLATGLSPTRTDPDPKITIVS 719
Db 709 KIPTSFRK--WGLNLQFLVFLCTFMQIVICVI-WLYTAPPSYRNQELDESIIFIT 764
QY 720 CNPNVRNSLNTSLDLLSVVGFSGFAYMGKELPTNYNEAKFITLSMTFTSSVSLCTF 779
Db 765 CHEGSLMALGFLIGYTCLLAAICFFPAKSKLPEFNENAKFITLSMLIFFIVWIS--F 821
QY 780 MSAYSGVLVTIVDLTVNLNLAISLG---YFGPKCYMILPYPERNT 823
Db 822 IPAYASTYGVKFS-AVEVIAALASFGLLACIFFNKIVILFKPSRNT 868

RESULT 11
US-08-484-565-7
Sequence 7, Application US/08484565
Patent No. 5763569
GENERAL INFORMATION:
APPLICANT: Edward M. Brown
APPLICANT: Steven C. Hebert
APPLICANT: James E. Garrett, Jr.
TITLE OF INVENTION: CALCIUM RECEPTOR-ACTIVE
TITLE OF INVENTION: MOLECULES
NUMBER OF SEQUENCES: 20
CORRESPONDENCE ADDRESS:
ADDRESS: Lyon & Lyon
STREET: First Interstate World Center
SUITE: Suite 4700
STREET: 633 West Fifth Street
CITY: Los Angeles
STATE: California
COUNTRY: USA
ZIP: 90071
COMPUTER READABLE FORM:
MEDIUM TYPE: 3.5" Diskette, 1.44 Mb storage
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: FASTSEQ
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/484,565
FILING DATE: 7 June, 1995
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
PRIOR APPLICATION DATA: including application
PRIOR APPLICATION DATA: described below: 9
APPLICATION NUMBER: 08/353,784
FILING DATE: 9 December, 1994
APPLICATION NUMBER: PCT/US/94/12117
FILING DATE: 21 October, 1994
APPLICATION NUMBER: U.S. 08/292,827
FILING DATE: 23 August, 1994
APPLICATION NUMBER: U.S. 08/141,248
FILING DATE: 22 October, 1993
APPLICATION NUMBER: U.S. 08/009,389
FILING DATE: 23 February, 1993

APPLICATION NUMBER: U.S. 08/017,127
FILING DATE: 12 February, 1993
APPLICATION NUMBER: U.S. 07/934,161
FILING DATE: 21 August, 1992
APPLICATION NUMBER: U.S. 07/834,044
FILING DATE: 11 February, 1992
APPLICATION NUMBER: U.S. 07/749,451
FILING DATE: 23 August, 1991
ATTORNEY/AGENT INFORMATION:
NAME: Heber, Sheldon O.
REGISTRATION NUMBER: 38,179
REFERENCE/DOCKET NUMBER: 213/006
TELECOMMUNICATION INFORMATION:
TELEPHONE: (213) 489-1600
TELEFAX: (213) 955-0440
TELEX: 67-3510
INFORMATION FOR SEQ ID NO: 7:
SEQUENCE CHARACTERISTICS:
LENGTH: 1078 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-484-565-7

Query Match 24.3%; Score 1079.5; DB 1; Length 1078;
Best Local Similarity 31.4%; Pred. No. 1.6e-93;
Matches 279; Conservative 160; Mismatches 342; Indels 107; Gaps 27;

QY 16 WVLAPPAENSDFYLP-----GDYLLGGLFSLHANMKGIVHLNLFQVPMCKEYEVKVI 68
Db 8 WVLLALTWHTSAYGPDQRAQKKGDIILGGLFPIHF--GVAAKD--QDLKSRPESVECI 62
QY 69 YNL-----MQAMRFAVEINNDSSLLPGVLGYEIVDVC--YISNNVQVLYFLA-HEDNL 121
Db 63 YNFRGFRWLQAMIFAEIEINSPPALLNLTGLYRIFDTCNTVSKALEATLSFVAQNKIDS 122
QY 122 LPIQES--DYSNVISRVAVIGPDNSVMTVANFLSLFLLPQITVYSAISDELDRKVRP 179
Db 123 LNLDFCNCSEHISTIAVVGATGSGVSTAVANLLGLYIIPQSVASSRLLSNKQPKS 182
QY 180 LLRTTPSADHVEAMVQLMLHFRNWIIVLVSSDTYGRDNGQLGGERVARDCICIAFOET 239
Db 183 FLRTIPDEHQATAMADIIIEYFRWNWGTIAADDYGRPGIEKPREAEERDICTDFSEL 242
QY 240 LPTQPNQMTSEERQRLTVIVDKLOOSTARVVVVSFDLTLYHFFNEVLRFNFTCAVWI 299
Db 243 I-----SQYSDDEEIQHVVEVI--QNSTAKVIVVFSSGPDLEPLIKIEIVRRNITGKIWL 294
QY 300 ASESNAIDPVLHNLTELHGLTFLGITIOSVPIPGFSEF-----REWGPO 344
Db 295 ASEAWSSLLIAMPQYFHVVGTTIGFALKAGQIPGFRFLKKVHKPKSVHNGFAKEFWEE 354
QY 345 A-----GPPPLSRTSQSYTCNQECNCLNATLSFNITLRLSGE----- 382
Db 355 TFNCHLQBGAGPLPVDTFLRGH--EESGDRFSNSSTAFLPL--CTGDENISSVETPYD 410
QY 383 ----RVVYSVSAVYAVAHALHSLGCG-----DKSTCTKRVYVPQOLLEEIKWVNET 430
Db 411 YTHLRISYNYLVAVYSIAHALQDIYTCPLGRGLFTNGSCADIKKVEAMQVLKHLRLNFT 470
QY 431 -LLDHOIFPDPOGDVALHLEIVQWDRSONP--FQSVASYPL-----QRLKNIQDIS 482
Db 471 NNMGEQVTFDECGDLVGNYSIINWHLSPEDGSIVPEK--GYNVYAKKGERLFINEEKIL 529
QY 483 WHTVNTTIPMSCKRCSQKQKPV-GIHVCCFPCIDCLPCTFLNHTDEVECOACPN 541
Db 530 MSGFREVFPFNSCRDCLAGTRKGIIEGPTCCFCEVCPDGEYSDT-DASACNKCDD 588
QY 542 EWSYQSESCFQRQLVLEWHEAPTIIVALLAALGFLSTLAILVIFWRHFOTPIVRSAGG 601
Db 589 FWSNENHTSCIAKEIEFLSWTEPFGIALTLFAVLGELTAFVLGVIFKFRNTPIVKATNR 648
QY 602 PMCFLMLTLLVAVYVVPVYVGGPKVSCICLCHQALPPLCFTICISCIASVRSQIVCAF-- 659

649 ELSYLLFLLCFSSLLFFIGEPQDWTCLRQPAFGISFVLCISCLVKTNRVLLVFEA 708
660 KMASRPPRAYSVYVYQGYVNAFTVLRQVIVIGMLATGLSPTRTDDPKITIVS 719
709 KIPTSFRK---WMLNLQFLVFLCTFMQIVICVI-WLYTAPPSSYRNQOELEDEIFIT 764
720 CNPNYRNSLLFTSLDLSLVGVGFSPAYMGKELPTNYNEAKFTILSMFTYFTSSVSLCTF 779
765 CHEGSLMALGFLIGYTCLLAAICFFFAFKSRKLPENFNKAFITTFMLIFFIWIIS---F 821
780 MSAYSGVLVTIVDLLVTVLNLALISLG---YFGPKCYMILFYPERNT 823
822 IPAYASTYKGFVS-AVEVITAILAASFGLLACIFFNKIYIILFKPSRNT 868

RESULT 12

US-08-480-751-7
Sequence 7, Application US/08480751
Patent No. 585684
GENERAL INFORMATION:
APPLICANT: Edward F. Nemeth
APPLICANT: Edward M. Brown
APPLICANT: Steven C. Hebert
APPLICANT: Forrest H. Fuller
APPLICANT: James E. Garrett, Jr.
TITLE OF INVENTION: CALCIUM RECEPTOR-ACTIVE
NUMBER OF SEQUENCES: 20
CORRESPONDENCE ADDRESS:
ADDRESSEE: Lyon & Lyon
STREET: First Interstate World Center
STREET: Suite 4700
STREET: 633 West Fifth Street
CITY: Los Angeles
STATE: California
COUNTRY: USA
ZIP: 90071
COMPUTER READABLE FORM:
MEDIUM TYPE: 3.5" Diskette, 1.44 Mb storage
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: FASTSEQ
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/480,751
FILING DATE: 7 June, 1995
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
PRIOR APPLICATION DATA: including application
PRIOR APPLICATION DATA: described below: 9
APPLICATION NUMBER: 08/353,784
FILING DATE: 9 December, 1994
APPLICATION NUMBER: PCT/US/94/12117
FILING DATE: 21 October, 1994
APPLICATION NUMBER: U.S. 08/292,827
FILING DATE: 23 August, 1994
APPLICATION NUMBER: U.S. 08/141,248
FILING DATE: 22 October, 1993
APPLICATION NUMBER: U.S. 08/009,389
FILING DATE: 23 February, 1993
APPLICATION NUMBER: U.S. 08/017,127
FILING DATE: 12 February, 1993
APPLICATION NUMBER: U.S. 07/934,161
FILING DATE: 21 August, 1992
APPLICATION NUMBER: U.S. 07/834,044
FILING DATE: 11 February, 1992
APPLICATION NUMBER: U.S. 07/749,451
FILING DATE: 23 August, 1991
ATTORNEY/AGENT INFORMATION:
NAME: Heber, Sheldon O.
REGISTRATION NUMBER: 38,179
REFERENCE/DOCKET NUMBER: 213/004
TELECOMMUNICATION INFORMATION:

TELEPHONE: (213) 489-1600
TELEFAX: (213) 955-0440
TELEX: 67-3510
INFORMATION FOR SEQ ID NO: 7:
SEQUENCE CHARACTERISTICS:
LENGTH: 1078 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-480-751-7
Query Match 24.3%; Score 1079.5; DB 1; Length 1078;
Best Local Similarity 31.4%; Pred. No. 1.6e-93;
Matches 279; Conservative 160; Mismatches 342; Indels 107; Gaps 27;
QY 16 WYLAEPANSDYFLP-----GDYLLGGLFSLHANMGIVHLNFIQVPMCKEYEVKVI 68
DB 8 WVLLALTWHTSAYGPDQRAQKGDIIILGLFFIHF---GVAAD--QDLKSRSEVCEIR 62
QY 69 YNL-----MQAMRFAVEEINNDSSLLPGVLLGYEIVDVC-YISNNVQPVLYFLA-HEDNL 121
DB 63 YNFRGRWLQAMIFAEEINSSPALLPNTLTGYRIFDTCNTVSKALEATLSFVAQNKIDS 122
QY 122 LPIQE--DYSNYSIRVVAVIGPDNSESVMVANFSLFLLPQITYSAISDELKRVFPA 179
DB 123 LNLDEFNCSEHIPSTIAVVGATSGVSTAVANLLGLFYIPQVSYASSRLLSNKNQFKS 182
QY 180 LARTPSADHVEAMVQLMHPWNWIIVLVSSDTYGRDNGQLLGERVARRDICIAPQET 239
DB 183 FLRTIPNDSHQATAMADIIEYFRWNVVGIIAADDYGRGIEKFEREAEERDICIPESEL 242
QY 240 LPTLPQNQNTSEERQLVTIIVDKLQOSTARVVVFPSPDLTYLHFFNEVLNQFTGAWI 299
DB 243 I-----SQYSDREEIQHVVVI---QNSTAKVIVFSSGPDLEPLIKEIVRRNITGKIWL 294
QY 300 ASSEWAIIDPVNLHNLTELHGLTFLGTITQISVPIPGSEP-----REWGQP 344
DB 295 ASEAWASSLIAMPQYFHVVGTTIGFALKAGQIPGFREFLKKVHPKRSVHNGFAKEFWE 354
QY 345 A-----GPPPLSRITSQSYTCNQECNCLNATLSFNTILRLSE----- 382
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QY 383 ----RVVYSVYSAVAVAHALHSLGC-----DKSTCKRVVVPWQLEIWKVNYFT 430
DB 411 YTHLRISYVYLAIVSIAHALQDIYTCPLGRGLFTNGSCADIKKVEAWQVLKHLRLNFT 470
QY 431 -LLDHQIFPDQGDVALHLEIVQWQDRSNP--FQSVASYPL-----ORLKNIODIS 482
DB 471 NNMGEQVTFDECGDLVGNYSIINWHLSPEDGSIYFKEV-GYVNVYAKKGERLFINEKIL 529
QY 483 WHTVNTTIPMSCKSKCQSQKKPV-GIHVCCFECIDCLPGTFLNHTDEYEQACPN 541
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DB 589 FNSNENHTSCIAKEIEFLSWTEPFGIALTLFVGLIFLTAFLVGLVFKFRNTPIVKATNR 648
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DB 649 ELSYLLFLLCFSSLLFFIGEPQDWTCLRQPAFGISFVLCISCLVKTNRVLLVFEA 708
QY 660 KMASRPPRAYSVYVYQGYVNAFTVLRQVIVIGMLATGLSPTRTDDPKITIVS 719
DB 709 KIPTSFRK---WMLNLQFLVFLCTFMQIVICVI-WLYTAPPSSYRNQOELEDEIFIT 764
QY 720 CNPNYRNSLLFTSLDLSLVGVGFSPAYMGKELPTNYNEAKFTILSMFTYFTSSVSLCTF 779
DB 765 CHEGSLMALGFLIGYTCLLAAICFFFAFKSRKLPENFNKAFITTFMLIFFIWIIS---F 821
QY 780 MSAYSGVLVTIVDLLVTVLNLALISLG---YFGPKCYMILFYPERNT 823

NUMBER OF SEQUENCES: 20
CORRESPONDENCE ADDRESS:
ADDRESSEE: Lyon & Lyon
STREET: First Interstate World Center
SUITE: Suite 4700
CITY: Los Angeles
STATE: California
COUNTRY: USA
ZIP: 90071
COMPUTER READABLE FORM:
MEDIUM TYPE: 3.5" Diskette, 1.44 Mb storage
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: FASTSEQ
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/353,784
FILING DATE: 9 December, 1994
CLASSIFICATION: 514
PRIOR APPLICATION DATA:
PRIOR APPLICATION DATA: including application
PRIOR APPLICATION DATA: described below: 8
APPLICATION NUMBER: PCT/US/94/12117
FILING DATE: 21 October, 1994
APPLICATION NUMBER: U.S. 08/292,827
FILING DATE: 23 August, 1994
APPLICATION NUMBER: U.S. 08/141,248
FILING DATE: 22 October, 1993
APPLICATION NUMBER: U.S. 08/009,389
FILING DATE: 23 February, 1993
APPLICATION NUMBER: U.S. 08/017,127
FILING DATE: 12 February, 1993
APPLICATION NUMBER: U.S. 07/934,161
FILING DATE: 21 August, 1992
APPLICATION NUMBER: U.S. 07/834,044
FILING DATE: 11 February, 1992
APPLICATION NUMBER: U.S. 07/749,451
FILING DATE: 23 August, 1991
ATTORNEY/AGENT INFORMATION:
NAME: Heber, Sheldon O.
REGISTRATION NUMBER: 38,179
REFERENCE/DOCKET NUMBER: 209/069
TELECOMMUNICATION INFORMATION:
TELEPHONE: (213) 489-1600
TELEFAX: (213) 955-0440
TELEX: 67-3510
INFORMATION FOR SEQ ID NO: 7:
SEQUENCE CHARACTERISTICS:
LENGTH: 1078 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-353-784-7

Query Match 24.3%; Score 1079.5; DB 2; Length 1078;
Best Local Similarity 31.4%; Pred. No. 1.6e-93;
Matches 279; Conservative 160; Mismatches 342; Indels 107; Gaps 27;

QY 16 WVLAEPAENSDFYLP-----GDYLLGLFLSHANMKGIHNLFLQVPMCKEYEVKVG 68
DB 8 WVLLALTWHTSAYGPDQRAQKGGDILGLFPPIHF---GVAKD--QDLKSRPESVEICR 62
QY 69 YNL-----MQAMFAVEINNDSSLLPGVLLGYEVDVC-YISNNQVPLVFLA-HEDNL 121
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QY 122 LPTQE--DYNSYISRVAVNIPDNSESVMVAVNLSLFLPQITYSAISDELAKVRPFA 179
DB 123 LNLDEFNCSEHIPSTIAVVGATGSGVSTAVANLLGLFYIPQVSYASSLLSNKNQFKS 182
QY 180 LRLTTSADHHVAMVQLMHLFRNWTIIVLVSSDYGDRNGQLLGERVARRDICIAFOET 239
DB 183 FLRTIPNDEHQATMADIIEYFRNWNVGTIAADDDYGRPGIEKFEAEERDICIPESEL 242.

QY 240 LPTLPQNMNTSEQRQLVTIVDKLQOQSTARVVVVVSPDLTLYHFFNEVLRQFTGAVMI 299
DB 243 I-----SQSYDEEIQHVVEVI---QNSTAKVIVVFFSGPDLEPLIKEIVRNRITGKIWL 294
QY 300 ASESWAIDPVLHNLTELGHGLTITQSVIPQFSEF-----REWGQ 344
DB 295 ASEAWASSLIAMPQVYFVVGCTIGFALKAGQIPGFREFLKKVHPKRSVHNGFAKEFWEE 354
QY 345 A-----GPPLSRTSOSYTCNOECDNCLNATLSNTILRLSGE----- 382
DB 355 TFNCHLQEGAKPLPVDTPFLRGH--EESGDRFSNSSTAFRPL--CTGDENISSETVETPYID 410
QY 383 ----RWYVSYSVAVYVAHALHSLGCG-----DKSTCTKRVVYVWQLLBEEIKVKNFT 430
DB 411 YTHLRAISYNYLAVYSIAHALQDIYTCPLGRGLFTNGSCADIKKVEAWQVLKHLRLNFT 470
QY 431 -LLDHOIFPDPOGDVALHLEIVQWQDRSQNP--FQSVASYYP-----ORQLKNQDIS 482
DB 471 NNMGEQVTFDECGDLVGNYSIINWHLSPEDGSIVFKEV-GYNYNVAKGERLFINBEKIL 539
QY 483 WHTVANTTPMSKRCOSQKQKPV-GIHVCCFECIDCLPGTFLNHTDEYECQACPN 541
DB 530 WSGFREVEFPFNSCRDCLAGTRKGIIEGPTCCFCEVCEPDGEYSDET-DASACNKCDD 588
QY 542 EWSYOSETSCFKRQLVLEWHEAPTIAVALLAALGFLSTLAIIVIFWRHFQTPIVRSAGG 601
DB 589 FWSNENHTSCIAKEIEFLSWTEPFGIALTLFVGLFATFVGLVGIKFRNTPIVKATNR 648
QY 602 PNCFLMLTLVAVYVYVGPVKVSTCLCRQALPPLCFTICISCIASVRSPOIVCAP-- 659
DB 649 ELSYLLFLSLCCFSSSLFFIGEPODWTCLRQAPAGISFVLCISCIILVKNRVLVFEA 708
QY 660 KMASRPPRAYSVWRYQGPVSVMAFITVLKMWIVVIGMLATGLSPTRTDPPDPKTIVS 719
DB 709 KIPTSFRK---WGLNLQFLVFLCTFMQIVICVI-WLYTAPSSYRQOELEDEIPIIT 764
QY 720 CNPNYRNSLENTSLDLVSVGVFSFAYMKGLEPTNYNEAKFTLTSMTFTYFTSSVSLCTF 779
DB 765 CHEGSLMAGFLIGYTCLLAAICFFAFKSRKLPENFNEAKFTTFSMLIFFIWIWIS--F 821
QY 780 MSAYSGVLVTIVDLLVTVLNLAISLG---YFGPKYCMILFYPERNT 823
DB 822 IPAYASTYKGFVS-AVEVIAILAAASFGLLACIPFNKIYIILFKPSRNT 868

RESULT 15
US-08-484-719B-7
Sequence 7, Application US/08484719B
Patent No. 6031003
GENERAL INFORMATION:
APPLICANT: Edward F. Nemeth, Edward M.
APPLICANT: Brown, Steven C. Hebert,
APPLICANT: Bradford C. Van Wagenen,
APPLICANT: Manuel F. Balandrin,
APPLICANT: Forrest H. Fuller, Eric G.
APPLICANT: Delmar, Scott T. Moe
TITLE OF INVENTION: CALCIUM RECEPTOR-ACTIVE
TITLE OF INVENTION: MOLECULES
NUMBER OF SEQUENCES: 20
CORRESPONDENCE ADDRESS:
ADDRESSEE: Lyon & Lyon
STREET: First Interstate World Center
SUITE: Suite 4700
CITY: Los Angeles
STATE: California
COUNTRY: USA
ZIP: 90071
COMPUTER READABLE FORM:
MEDIUM TYPE: 3.5" Diskette, 1.44 Mb storage
COMPUTER: IBM PC compatible
OPERATING SYSTEM: MS Word

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; SOFTWARE: FastSEQ for Windows Version 3.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/484,719B
; FILING DATE: 7 June, 1995
; CLASSIFICATION: 514
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/353,784
; FILING DATE: 9 December, 1994
; APPLICATION NUMBER: PCT/US/94/12117
; FILING DATE: 21 October, 1994
; APPLICATION NUMBER: U.S. 08/292,827
; FILING DATE: 23 August, 1994
; APPLICATION NUMBER: U.S. 08/141,248
; FILING DATE: 22 October, 1993
; APPLICATION NUMBER: U.S. 08/009,389
; FILING DATE: 23 February, 1993
; APPLICATION NUMBER: U.S. 08/017,127
; FILING DATE: 12 February, 1993
; APPLICATION NUMBER: U.S. 07/934,161
; FILING DATE: 21 August, 1992
; APPLICATION NUMBER: U.S. 07/834,044
; FILING DATE: 11 February, 1992
; APPLICATION NUMBER: U.S. 07/749,451
; FILING DATE: 23 August, 1991
; ATTORNEY/AGENT INFORMATION:
; NAME: Douglas C. Murdock
; REGISTRATION NUMBER: 37,549
; REFERENCE/DOCKET NUMBER: 213/007
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (213) 489-1600
; TELEFAX: (213) 955-0440
; TELEX: 67-3510
; INFORMATION FOR SEQ ID NO: 7:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1078 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-08-484-719B-7
;
; Query Match 24.3%; Score 1079.5; DB 2; Length 1078;
; Best Local Similarity 31.4%; Pred. No. 1.6e-93;
; Matches 279; Conservative 160; Mismatches 342; Indels 107; Gaps 27;
;
; QY 16 WYLAEPASNDYLP-----GDYLLGGLFSLHANMKGIVHLNFIQVPMCKEYEVKVG 68
; DB 8 WYLLALTWHTSAYGPDQRAQKKGDIILGGLFFIHF---GVAAKD--QDLKSPESVEGIR 62
;
; QY 69 YNL-----MQAMRFAVEEINNDSSLLPGVLLGYEIVDVC-YISNNVQVLYFLA-HEDNL 121
; DB 63 YNFRGRWLQAMFAIEEINSSPALLNLTGLYRIFDTCNTVSKALEATLSFVAQNKIDS 122
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; QY 122 LPIQE--DYSNVIISRVAVIGPDNSESVMTVANFLSLFLLPQITYSASIDELRDKVRPPA 179
; DB 123 LNLDEFNCSEHIPSTIAVVGATSGVSTAVANLLGLFYIPQVSASSRLLSNKNQPKS 182
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; QY 180 LLRTTPSADHHVAMVQLMLHFRWNIIVLVSSDTYGRDNGQLLGERVARRDICIATFOBT 239
; DB 183 FLRTIPDEHQATAMADIIIEFRWNVGTIAADDDYGRPGIEKFPREEAERDICIIDFSEL 242
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; QY 240 LPTLPQNMTSEERQLVTIIVDKLQQSTARVVVVVSPDLTLYHFFNEVLNQFTGAVWI 299
; DB 243 I-----SQVSDDEEIQHVVEVI---QNSTAKVIVVSSGPDLEPLIKEIVRRNITGKIWL 294
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; QY 300 ASESWAIDPVHLNLHGLTGLGITQSVIPGFSER-----REWGPO 344
; DB 295 ASEAWASSLIAMPOYFHVVGVTIGTIFALKAGQIPGFRFLKKVHPKRSVHNGFAKEFWEE 354
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; QY 345 A-----GPPPLSRTSQSYTCNOECDNCLNATLSFNITILRSGE----- 382
; DB 355 TFNCHLQEGAKGPLVDTPFLRGH--EESGDRFSNSSTAFRPL--CTGDENISSVETPYID 410
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; QY 383 ----RVVYSVYSAYVAHAHLSLLGC-----DKSTCTKRVVYVPMQLLEEIKWVNFT 430
; DB 411 YTHLRISYNYVLAVYSIAHALQDIYTCLPGRGLFTNGSCADIKKVEAWQVILKHLRLNFT 470
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; QY 431 -LLDHOIFFDQGDVVALHLEIVQWQDRSQNP--FQSVASYPL-----QROLKNIQDIS 482
; DB 471 NNMGEQVTFDECGDLVGNYSIINHLSPEDGSIYFKEV-GYNNVYAKKERLFFINEEKL 529
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; QY 483 WHTVNNTIPMSMCKRQSGOKKXPV-GIHVCCFECIDCLPGTFIHNHTDEYECQACPNN 541
; DB 530 WSGFSREVPFNCGRDCLAGTRKGIIEGPTCCFECVCPDGEYSDET-DASACNKCDD 588
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; QY 542 EWSYQSETSCFKRLQVLEWHEAPTIAVALLAALGFLSTLALLVIFWRHFOTPIVRSAGG 601
; DB 589 FWSNENHTSCIAKEIBFLSWTEPPFGIALTLFAVLGFIPLTAFVLGVFIKFRNTPIVKATNR 648
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; QY 602 PMCFLMLTLILLVAYMVVPVYVGPVKVSTCLCRQALFPLCFTICISCIAVRSPQIVCAF-- 659
; DB 649 ELSYILLFSLCCFSSSLFFIGEPODWTCRLRQPAFGISFVLICISILVKTNRVLLVFEA 708
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; QY 660 KXASRFPRAYSYVWRYQGPYVSMAPITVLKMWIVVIGMLATGLSPTRTDDPKITIVS 719
; DB 709 KIPTSFRHK---WMLNLQFLLVFLCTFMQIVICVI-WLYTAPPSSYRNQLEDEIIFIT 764
;
; QY 720 CNPNYRNSLLFWTSLDLLLSVVVGFSAFYMKGELPTNYNEAKFITLSMTFYFTSSVSLCTF 779
; DB 765 CHEGSLMALGFLIGYTCLLAAICFFPAFKSKLPENFNEAKFITFSMLIFFIVWIS---F 821
;
; QY 780 MSAYSGVLVTIVDLLVTNLLNLALSLG---YFGPKCYMILFYPERNT 823
; DB 822 IPATASTYCKFVS-AVEVIALAASFGLLACIFFNKIYIILFKPSRNT 868
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Search completed: February 11, 2006, 22:58:10
Job time : 34 secs

GenCore version 5.1.7
Copyright (c) 1993 - 2006 Bioceleration Ltd.

OM protein - protein search, using sw model

Run on: February 11, 2006, 23:09:48 ; Search time 176 Seconds
(without alignments)
1991.811 Million cell updates/sec

Title: US-10-035-045-21
Perfect score: 4443
Sequence: 1 MGPRAKTICSLFLLWVLAEL.....ERNTPAYFNSMIQGYTMRD 839

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 1867569 seqs, 417829326 residues

Total number of hits satisfying chosen parameters: 1867569

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Published Applications AA Main:
1: /cgn2_6/prodata/1/pubpaa/US07_PUBCOMB.pep.*
2: /cgn2_6/prodata/1/pubpaa/US08_PUBCOMB.pep.*
3: /cgn2_6/prodata/1/pubpaa/US09_PUBCOMB.pep.*
4: /cgn2_6/prodata/1/pubpaa/US10A_PUBCOMB.pep.*
5: /cgn2_6/prodata/1/pubpaa/US10B_PUBCOMB.pep.*
6: /cgn2_6/prodata/1/pubpaa/US11_PUBCOMB.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	4443	100.0	839	3	US-09-897-427A-4
2	4443	100.0	839	4	US-10-035-045-21
3	4443	100.0	839	4	US-10-179-373-6
4	4443	100.0	839	4	US-10-725-103-6
5	4443	100.0	839	4	US-10-725-489-6
6	4443	100.0	839	4	US-10-725-080A-6
7	4443	100.0	839	4	US-10-725-472A-6
8	4443	100.0	839	4	US-10-725-276-21
9	4443	100.0	839	4	US-10-770-127-198
10	4443	100.0	839	5	US-10-725-284-21
11	4443	100.0	839	5	US-10-725-418-6
12	4443	100.0	839	5	US-10-679-102-29
13	4422	99.5	839	4	US-10-246-785-4
14	4392.5	98.9	838	3	US-09-927-315-9
15	4392.5	98.9	838	4	US-10-190-417-9
16	4392.5	98.9	838	5	US-10-679-102-9
17	3463.5	78.0	669	4	US-10-124-598-7
18	3463.5	78.0	669	4	US-10-096-144-7
19	3463.5	78.0	669	4	US-10-325-567A-683
20	3231	72.7	843	3	US-09-927-315-7
21	3231	72.7	843	4	US-10-124-598-1
22	3231	72.7	843	4	US-10-096-144-1
23	3231	72.7	843	4	US-10-246-785-6
24	3231	72.7	843	4	US-10-190-417-7
25	3231	72.7	843	4	US-10-179-373-17
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32	3231	72.7	843	5	US-10-725-418-17	Sequence 17, Appl
33	3231	72.7	843	5	US-10-679-102-7	Sequence 7, Appl
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36	3179	71.6	843	4	US-10-096-144-2	Sequence 8, Appl
37	3179	71.6	843	4	US-10-190-417-8	Sequence 8, Appl
38	3179	71.6	843	5	US-10-679-102-8	Sequence 8, Appl
39	2532.5	57.0	661	4	US-10-246-785-5	Sequence 5, Appl
40	1987	44.7	542	5	US-10-892-632-5	Sequence 5, Appl
41	1456.5	32.8	840	3	US-09-361-652-1	Sequence 1, Appl
42	1456.5	32.8	840	3	US-09-927-315-1	Sequence 1, Appl
43	1456.5	32.8	840	4	US-10-246-785-3	Sequence 3, Appl
44	1456.5	32.8	840	4	US-10-190-417-1	Sequence 1, Appl
45	1456.5	32.8	840	4	US-10-159-339-12	Sequence 12, Appl

ALIGNMENTS

RESULT 1
US-09-897-427A-4
; Sequence 4, Application US/09897427A
; Patent No. US20020160424A1
; GENERAL INFORMATION:
; APPLICANT: ADLER, JON ELLIOT
; APPLICANT: LI, XIADONG
; APPLICANT: STAZEWSKI, LENA
; APPLICANT: XU, HONG
; APPLICANT: EHEVERRI, FERNANDO
; TITLE OF INVENTION: T1R HETERO-OLIGOMERIC TASTE RECEPTORS
; FILE REFERENCE: 078003-0282558
; CURRENT APPLICATION NUMBER: US/09/897,427A
; CURRENT FILING DATE: 2001-07-03
; NUMBER OF SEQ ID NOS: 10
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 4
; TYPE: PRT
; LENGTH: 839
; ORGANISM: Homo sapiens
US-09-897-427A-4

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Best Local Similarity	100.0%	Pred. No.	0	Mismatches	0	Indels	0
Matches	839	Conservative	0				
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Db	1	MGPRAKTICSLFLLWVLAEP	NSDFYLP	GDYLLGGLFSL	HANMKGI	VHLN	FLQVPMCK 60
QY	61	EYEVKVGYNLMQAMRFAVEE	INNDSSL	PGVLLGYEIVDV	CVISNN	VQVLYFLA	HEDN 120
Db	61	EYEVKVGYNLMQAMRFAVEE	INNDSSL	PGVLLGYEIVDV	CVISNN	VQVLYFLA	HEDN 120
QY	121	LLPIQEDYNYISRVAVV	IGPDS	ESVMTVANFLSL	FLLPQIT	YSALSD	ELRDKVRFPAL 180
Db	121	LLPIQEDYNYISRVAVV	IGPDS	ESVMTVANFLSL	FLLPQIT	YSALSD	ELRDKVRFPAL 180
QY	181	LRTPPSADHHEAVMQLM	LFHFRN	WIIVLVSS	DYGRDNGQL	LGERVAR	EDICIAFOETL 240
Db	181	LRTPPSADHHEAVMQLM	LFHFRN	WIIVLVSS	DYGRDNGQL	LGERVAR	EDICIAFOETL 240
QY	241	PTLQPNQMTSEERQRLV	ITVDK	LQOSTARVVV	VFSPDL	TLYHFF	NEVLQNFTGAVWIA 300
Db	241	PTLQPNQMTSEERQRLV	ITVDK	LQOSTARVVV	VFSPDL	TLYHFF	NEVLQNFTGAVWIA 300
QY	301	SESWAIDPVLHNLTEL	GHGT	FLGITIQSV	PIPGSE	FEFEGW	GQAGPPPLSRTSQSYTCN 360
Db	301	SESWAIDPVLHNLTEL	GHGT	FLGITIQSV	PIPGSE	FEFEGW	GQAGPPPLSRTSQSYTCN 360


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; PRIOR FILING DATE: 2001-11-21
; PRIOR APPLICATION NUMBER: 60/339,472
; PRIOR FILING DATE: 2001-12-14
; PRIOR APPLICATION NUMBER: 60/372,090
; PRIOR FILING DATE: 2002-04-15
; PRIOR APPLICATION NUMBER: 60/374,143
; PRIOR FILING DATE: 2002-04-22
; NUMBER OF SEQ ID NOS: 19
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 6
; LENGTH: 839
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-179-373-6

Query Match      100.0%; Score 4443; DB 4; Length 839;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 839; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Db 1 MGPRAKTICSLFLLWVLAEPANSDYLPDGYLLGGLFSLHANMKGIVHLNFIQVPMCK 60

QY 61 EYEVKVIYNLMQAMRFAVEEINNDSSLLPGVLLGYEIVDVVCYISNNVQVLYFLAHEDN 120
Db 61 EYEVKVIYNLMQAMRFAVEEINNDSSLLPGVLLGYEIVDVVCYISNNVQVLYFLAHEDN 120

QY 121 LLPIQEDYSNYSRVAIVGPDSSESVMTVANFSLFLPQITYSAISDELDRKVRFPAL 180
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Db 121 LLPIQEDYSNYSRVAIVGPDSSESVMTVANFSLFLPQITYSAISDELDRKVRFPAL 180

QY 181 LRTTPSADHHEAMVQMLHFRWNIIIVLSSDTYGRDNGQLLGERVARRDICIAPQETL 240
Db 181 LRTTPSADHHEAMVQMLHFRWNIIIVLSSDTYGRDNGQLLGERVARRDICIAPQETL 240

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Db 241 PTLPQNMTSEERQBLVTIVDKLQOSTARVVVVFSPDLTYHFFNEVLQNFVLAHEDN 300

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QY 361 QECNCLNATLSFNTILRLSGERVWVSANVAVAHALHSLGCDKSTCTKRVVYPWQL 420
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; PRIOR FILING DATE: 2001-11-21
; PRIOR APPLICATION NUMBER: 60/339,472
; PRIOR FILING DATE: 2001-12-14
; PRIOR APPLICATION NUMBER: 60/372,090
; PRIOR FILING DATE: 2002-04-15
; PRIOR APPLICATION NUMBER: 60/374,143
; PRIOR FILING DATE: 2002-04-22
; NUMBER OF SEQ ID NOS: 19
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 6
; LENGTH: 839
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-179-373-6

Query Match      100.0%; Score 4443; DB 4; Length 839;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 839; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Db 1 MGPRAKTICSLFLLWVLAEPANSDYLPDGYLLGGLFSLHANMKGIVHLNFIQVPMCK 60

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QY 121 LLPIQEDYSNYSRVAIVGPDSSESVMTVANFSLFLPQITYSAISDELDRKVRFPAL 180
Db 121 LLPIQEDYSNYSRVAIVGPDSSESVMTVANFSLFLPQITYSAISDELDRKVRFPAL 180

QY 121 LLPIQEDYSNYSRVAIVGPDSSESVMTVANFSLFLPQITYSAISDELDRKVRFPAL 180
Db 121 LLPIQEDYSNYSRVAIVGPDSSESVMTVANFSLFLPQITYSAISDELDRKVRFPAL 180

QY 181 LRTTPSADHHEAMVQMLHFRWNIIIVLSSDTYGRDNGQLLGERVARRDICIAPQETL 240
Db 181 LRTTPSADHHEAMVQMLHFRWNIIIVLSSDTYGRDNGQLLGERVARRDICIAPQETL 240

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Db 241 PTLPQNMTSEERQBLVTIVDKLQOSTARVVVVFSPDLTYHFFNEVLQNFVLAHEDN 300

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; PRIOR FILING DATE: 2001-11-21
; PRIOR APPLICATION NUMBER: 60/339,472
; PRIOR FILING DATE: 2001-12-14
; PRIOR APPLICATION NUMBER: 60/372,090
; PRIOR FILING DATE: 2002-04-15
; PRIOR APPLICATION NUMBER: 60/374,143
; PRIOR FILING DATE: 2002-04-22
; NUMBER OF SEQ ID NOS: 19
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 6
; LENGTH: 839
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-179-373-6

Query Match      100.0%; Score 4443; DB 4; Length 839;
Best Local Similarity 100.0%; Pred. No. 0;
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Db 241 PTLPQNMTSEERQBLVTIVDKLQOSTARVVVVFSPDLTYHFFNEVLQNFVLAHEDN 300

QY 241 PTLPQNMTSEERQBLVTIVDKLQOSTARVVVVFSPDLTYHFFNEVLQNFVLAHEDN 300
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QY 301 SESWAIDPVLHNLTELHGLTFLGITTQSVPIPGFSEFREWGPQAGPPPLSRYSQSYTCN 360
Db 301 SESWAIDPVLHNLTELHGLTFLGITTQSVPIPGFSEFREWGPQAGPPPLSRYSQSYTCN 360

QY 301 SESWAIDPVLHNLTELHGLTFLGITTQSVPIPGFSEFREWGPQAGPPPLSRYSQSYTCN 360
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QY 361 QECNCLNATLSFNTILRLSGERVWVSANVAVAHALHSLGCDKSTCTKRVVYPWQL 420
Db 361 QECNCLNATLSFNTILRLSGERVWVSANVAVAHALHSLGCDKSTCTKRVVYPWQL 420
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Db 421 LEEIWKVNFTLLDHOIFPDQGDVALHLEIVQWQDRSQNPQSVASYPQLQKNIQD 480
Qy 481 ISWHTVNNITI PMSMCKRCQSQKPKVGIHVCCFECIDCLPGTFLNHTEDYEQACPN 540
Db 481 ISWHTVNNITI PMSMCKRCQSQKPKVGIHVCCFECIDCLPGTFLNHTEDYEQACPN 540
Qy 541 NEWSQSETSCFKROLVFLWEHEAPTIAVALLAALGFLSTLAILVIFWRHFOTPIVRSG 600
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RESULT 5

US-10-725-489-6
; Sequence 6, Application US/10725489
; Publication No. US20040175793A1
; GENERAL INFORMATION:
; APPLICANT: ZOLLER, MARK
; APPLICANT: LI, XIAODONG
; APPLICANT: STASZEWSKI, LENA
; APPLICANT: O'CONNELL, SHAWN
; APPLICANT: ZOZULYA, SERGEY
; APPLICANT: ADLER, JON
; APPLICANT: XU, HONG
; APPLICANT: ECHEVERRI, FERNANDO
; TITLE OF INVENTION: T1R HETERO-OLIGOMERIC TASTE RECEPTORS AND CELL LINES
; TITLE OF INVENTION: THAT EXPRESS SAID RECEPTORS AND USE THEREOF FOR
; TITLE OF INVENTION: IDENTIFICATION OF TASTE COMPOUNDS
; FILE REFERENCE: 078003-0291566
; CURRENT APPLICATION NUMBER: US/10/725,489
; CURRENT FILING DATE: 2003-12-03
; PRIOR APPLICATION NUMBER: 60/300,434
; PRIOR FILING DATE: 2001-06-26
; PRIOR APPLICATION NUMBER: 60/304,749
; PRIOR FILING DATE: 2001-07-13
; PRIOR APPLICATION NUMBER: 60/310,493
; PRIOR FILING DATE: 2001-08-08
; PRIOR APPLICATION NUMBER: 60/331,771
; PRIOR FILING DATE: 2001-11-21
; PRIOR APPLICATION NUMBER: 60/339,472
; PRIOR FILING DATE: 2001-12-14
; PRIOR APPLICATION NUMBER: 60/372,090
; PRIOR FILING DATE: 2002-04-15
; PRIOR APPLICATION NUMBER: 60/374,143
; PRIOR FILING DATE: 2002-04-22
; NUMBER OF SEQ ID NOS: 19
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 6
; LENGTH: 839
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-725-489-6

Query Match 100.0%; Score 4443; DB 4; Length 839;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 839; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 1 MGPRAKTICSLFFLLWLAEPAENSDFYLPDGYLLGGLFSLHANMKGIVHLNFLQVPMCK 60
Db 1 MGPRAKTICSLFFLLWLAEPAENSDFYLPDGYLLGGLFSLHANMKGIVHLNFLQVPMCK 60
Qy 61 EYEVKVIYNLMQAMRFAVEEINNDSSLLPGVLLGYEIVDVYCIYNNVQPVLYFLAHEDN 120
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Qy 181 LRTTPSADHVEAMVQLMHLFRWNWII VLVSSDVTYGRDNGQLLGERVARRDICI AFQETL 240
Db 181 LRTTPSADHVEAMVQLMHLFRWNWII VLVSSDVTYGRDNGQLLGERVARRDICI AFQETL 240
Qy 241 PTLQPNQNTSEERQRLVTIIVDKLOOSTARVVVVPSPDLTYLHFFNEVLRQNFCAVIA 300
Db 241 PTLQPNQNTSEERQRLVTIIVDKLOOSTARVVVVPSPDLTYLHFFNEVLRQNFCAVIA 300
Qy 301 SESNAIDPVLNHLTELGHGTFLGITI OSVIPGSEFREWGPQAGPPPLSRTSOSYTCN 360
Db 301 SESNAIDPVLNHLTELGHGTFLGITI OSVIPGSEFREWGPQAGPPPLSRTSOSYTCN 360
Qy 361 QECNCLNATLSFNTILRLSGRVVSVYSAVAVAHALHSLGCDKSTCKRVVYPQL 420
Db 361 QECNCLNATLSFNTILRLSGRVVSVYSAVAVAHALHSLGCDKSTCKRVVYPQL 420
Qy 421 LEEIWKVNFTLLDHOIFPDQGDVALHLEIVQWQDRSQNPQSVASYPQLQKNIQD 480
Db 421 LEEIWKVNFTLLDHOIFPDQGDVALHLEIVQWQDRSQNPQSVASYPQLQKNIQD 480
Qy 481 ISWHTVNNITI PMSMCKRCQSQKPKVGIHVCCFECIDCLPGTFLNHTEDYEQACPN 540
Db 481 ISWHTVNNITI PMSMCKRCQSQKPKVGIHVCCFECIDCLPGTFLNHTEDYEQACPN 540
Qy 541 NEWSQSETSCFKROLVFLWEHEAPTIAVALLAALGFLSTLAILVIFWRHFOTPIVRSG 600
Db 541 NEWSQSETSCFKROLVFLWEHEAPTIAVALLAALGFLSTLAILVIFWRHFOTPIVRSG 600
Qy 601 GPMCFMLTLLVAYMVPVYVGGPKVSTCLCRQALFPLCFTICISCIARSFQIVCAFK 660
Db 601 GPMCFMLTLLVAYMVPVYVGGPKVSTCLCRQALFPLCFTICISCIARSFQIVCAFK 660
Qy 661 MASRPFRAYSWMRYOGPVVSMAFITVLKMWIWIWGLMGLATGLSPTRTDPDDPKITIIVSC 720
Db 661 MASRPFRAYSWMRYOGPVVSMAFITVLKMWIWIWGLMGLATGLSPTRTDPDDPKITIIVSC 720
Qy 721 NPNYNSLLFNTSLDLLSVVGFSPAYMGKELPTNYNEAKFTILSMTFYFTSSVSLCTFM 780
Db 721 NPNYNSLLFNTSLDLLSVVGFSPAYMGKELPTNYNEAKFTILSMTFYFTSSVSLCTFM 780
Qy 781 SAYSGVLVTIVDLLVTVLNLLAISLGYPGPKCYMILFYPERNTPAYFNSMIQGYTMRD 839
Db 781 SAYSGVLVTIVDLLVTVLNLLAISLGYPGPKCYMILFYPERNTPAYFNSMIQGYTMRD 839

RESULT 6

US-10-725-080A-6
; Sequence 6, Application US/10725080A
; Publication No. US20040185469A1
; GENERAL INFORMATION:
; APPLICANT: ZOLLER, MARK
; APPLICANT: LI, XIAODONG
; APPLICANT: STASZEWSKI, LENA
; APPLICANT: O'CONNELL, SHAWN
; APPLICANT: ZOZULYA, SERGEY
; APPLICANT: ADLER, JON
; APPLICANT: XU, HONG

```

; APPLICANT: ECHEVERRI, FERNANDO
; TITLE OF INVENTION: T1R HETERO-OLIGOMERIC TASTE RECEPTORS AND CELL LINES
; TITLE OF INVENTION: THAT EXPRESS SAID RECEPTORS AND USE THEREOF FOR
; TITLE OF INVENTION: IDENTIFICATION OF TASTE COMPOUNDS
; FILE REFERENCE: 078003-0291566
; CURRENT APPLICATION NUMBER: US/10/725,080A
; CURRENT FILING DATE: 2003-12-02
; PRIOR APPLICATION NUMBER: 60/300,434
; PRIOR FILING DATE: 2001-06-26
; PRIOR APPLICATION NUMBER: 60/304,749
; PRIOR FILING DATE: 2001-07-13
; PRIOR APPLICATION NUMBER: 60/310,493
; PRIOR FILING DATE: 2001-08-08
; PRIOR APPLICATION NUMBER: 60/331,771
; PRIOR FILING DATE: 2001-11-21
; PRIOR APPLICATION NUMBER: 60/339,472
; PRIOR FILING DATE: 2001-12-14
; PRIOR APPLICATION NUMBER: 60/372,090
; PRIOR FILING DATE: 2002-04-15
; PRIOR APPLICATION NUMBER: 60/374,143
; PRIOR FILING DATE: 2002-04-22
; NUMBER OF SEQ ID NOS: 19
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 6
; LENGTH: 839
; TYPE: PRT
; ORGANISM: Homo sapiens
; ORGANISM: Homo sapiens
US-10-725-080A-6

Query Match 100.0%; Score 4443; DB 4; Length 839;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 839; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MGPRAKTICSLFLLVWLAEPANSDPYLPDGLGGLFSLHANMKGIHVLNFIQVPMCK 60
DB 1 MGPRAKTICSLFLLVWLAEPANSDPYLPDGLGGLFSLHANMKGIHVLNFIQVPMCK 60

QY 61 EYEVKVIYNLMQAMRFAVEEINNDSSLLPGVLLGYEIVDVCVISNNVQVLYFLAHEDN 120
DB 61 EYEVKVIYNLMQAMRFAVEEINNDSSLLPGVLLGYEIVDVCVISNNVQVLYFLAHEDN 120

QY 121 LLPQEDYSNYISRRVAVIGPDNSVMTVANFLSLFLLPQITYSAISDELKRVFPAL 180
DB 121 LLPQEDYSNYISRRVAVIGPDNSVMTVANFLSLFLLPQITYSAISDELKRVFPAL 180

QY 181 LRTTPSADHVEAMVQLMLHFRWNIIIVLVSSDYTCGRDNGQLLGERVARRDICIATQETL 240
DB 181 LRTTPSADHVEAMVQLMLHFRWNIIIVLVSSDYTCGRDNGQLLGERVARRDICIATQETL 240

QY 241 PTLQPNQMTSEBRQRLVTIVDKLQOSTARVVVVVFPDGLTYHFFNEVLQNTGAVWIA 300
DB 241 PTLQPNQMTSEBRQRLVTIVDKLQOSTARVVVVVFPDGLTYHFFNEVLQNTGAVWIA 300

QY 301 SESWADPVLHNTLHGLTGLGTTIQSPVPIGFSFREWGPQAGPPPLSRYSQSYTCN 360
DB 301 SESWADPVLHNTLHGLTGLGTTIQSPVPIGFSFREWGPQAGPPPLSRYSQSYTCN 360

QY 361 QECDCNCLNATLSFNTIILRSGERVVSVYSAVAVAHALHSLGCDKSTCTKRVVYPWQL 420
DB 361 QECDCNCLNATLSFNTIILRSGERVVSVYSAVAVAHALHSLGCDKSTCTKRVVYPWQL 420

QY 421 LEEIWKVNTLLDHOIFPDQGVALLHLEIVQWQDRSQNPFGOSVASYYPQLQKNIQD 480
DB 421 LEEIWKVNTLLDHOIFPDQGVALLHLEIVQWQDRSQNPFGOSVASYYPQLQKNIQD 480

QY 481 ISHWTVNTTIPMSKCSKCSGQKKPVGHVCCFECIDCLPGTFLNHTDEYECQACPN 540
DB 481 ISHWTVNTTIPMSKCSKCSGQKKPVGHVCCFECIDCLPGTFLNHTDEYECQACPN 540

QY 541 NEWSYQSETSCFKRQLVFLWEHAPTIAVALLAALGFLSTLAILVIFWRHFQTPVRSAG 600
DB 541 NEWSYQSETSCFKRQLVFLWEHAPTIAVALLAALGFLSTLAILVIFWRHFQTPVRSAG 600

; APPLICANT: ECHEVERRI, FERNANDO
; TITLE OF INVENTION: T1R HETERO-OLIGOMERIC TASTE RECEPTORS AND CELL LINES
; TITLE OF INVENTION: THAT EXPRESS SAID RECEPTORS AND USE THEREOF FOR
; TITLE OF INVENTION: IDENTIFICATION OF TASTE COMPOUNDS
; FILE REFERENCE: 078003-0291566
; CURRENT APPLICATION NUMBER: US/10/725,080A
; CURRENT FILING DATE: 2003-12-02
; PRIOR APPLICATION NUMBER: 60/300,434
; PRIOR FILING DATE: 2001-06-26
; PRIOR APPLICATION NUMBER: 60/304,749
; PRIOR FILING DATE: 2001-07-13
; PRIOR APPLICATION NUMBER: 60/310,493
; PRIOR FILING DATE: 2001-08-08
; PRIOR APPLICATION NUMBER: 60/331,771
; PRIOR FILING DATE: 2001-11-21
; PRIOR APPLICATION NUMBER: 60/339,472
; PRIOR FILING DATE: 2001-12-14
; PRIOR APPLICATION NUMBER: 60/372,090
; PRIOR FILING DATE: 2002-04-15
; PRIOR APPLICATION NUMBER: 60/374,143
; PRIOR FILING DATE: 2002-04-22
; NUMBER OF SEQ ID NOS: 19
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 6
; LENGTH: 839
; TYPE: PRT
; ORGANISM: Homo sapiens
; ORGANISM: Homo sapiens
US-10-725-472A-6

; Sequence 6, Application US/10725472A
; Publication No. US20040191862A1
; GENERAL INFORMATION:
; APPLICANT: ZOLLER, MARK
; APPLICANT: LI, XIAODONG
; APPLICANT: STASZEWSKI, LENA
; APPLICANT: O'CONNELL, SHAWN
; APPLICANT: ZOZULYA, SERGEY
; APPLICANT: ADLER, JON
; APPLICANT: XU, HONG
; APPLICANT: ECHEVERRI, FERNANDO
; TITLE OF INVENTION: T1R HETERO-OLIGOMERIC TASTE RECEPTORS AND CELL LINES
; TITLE OF INVENTION: THAT EXPRESS SAID RECEPTORS AND USE THEREOF FOR
; TITLE OF INVENTION: IDENTIFICATION OF TASTE COMPOUNDS
; FILE REFERENCE: 078003-0291566
; CURRENT APPLICATION NUMBER: US/10/725,472A
; CURRENT FILING DATE: 2003-12-03
; PRIOR APPLICATION NUMBER: 60/300,434
; PRIOR FILING DATE: 2001-06-26
; PRIOR APPLICATION NUMBER: 60/304,749
; PRIOR FILING DATE: 2001-07-13
; PRIOR APPLICATION NUMBER: 60/310,493
; PRIOR FILING DATE: 2001-08-08
; PRIOR APPLICATION NUMBER: 60/331,771
; PRIOR FILING DATE: 2001-11-21
; PRIOR APPLICATION NUMBER: 60/339,472
; PRIOR FILING DATE: 2001-12-14
; PRIOR APPLICATION NUMBER: 60/372,090
; PRIOR FILING DATE: 2002-04-15
; PRIOR APPLICATION NUMBER: 60/374,143
; PRIOR FILING DATE: 2002-04-22
; NUMBER OF SEQ ID NOS: 19
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 6
; LENGTH: 839
; TYPE: PRT
; ORGANISM: Homo sapiens
; ORGANISM: Homo sapiens
US-10-725-472A-6

Query Match 100.0%; Score 4443; DB 4; Length 839;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 839; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MGPRAKTICSLFLLVWLAEPANSDPYLPDGLGGLFSLHANMKGIHVLNFIQVPMCK 60
DB 1 MGPRAKTICSLFLLVWLAEPANSDPYLPDGLGGLFSLHANMKGIHVLNFIQVPMCK 60

QY 61 EYEVKVIYNLMQAMRFAVEEINNDSSLLPGVLLGYEIVDVCVISNNVQVLYFLAHEDN 120
DB 61 EYEVKVIYNLMQAMRFAVEEINNDSSLLPGVLLGYEIVDVCVISNNVQVLYFLAHEDN 120

QY 121 LLPQEDYSNYISRRVAVIGPDNSVMTVANFLSLFLLPQITYSAISDELKRVFPAL 180
DB 121 LLPQEDYSNYISRRVAVIGPDNSVMTVANFLSLFLLPQITYSAISDELKRVFPAL 180

QY 181 LRTTPSADHVEAMVQLMLHFRWNIIIVLVSSDYTCGRDNGQLLGERVARRDICIATQETL 240
DB 181 LRTTPSADHVEAMVQLMLHFRWNIIIVLVSSDYTCGRDNGQLLGERVARRDICIATQETL 240

QY 241 PTLQPNQMTSEBRQRLVTIVDKLQOSTARVVVVVFPDGLTYHFFNEVLQNTGAVWIA 300
DB 241 PTLQPNQMTSEBRQRLVTIVDKLQOSTARVVVVVFPDGLTYHFFNEVLQNTGAVWIA 300

QY 301 SESWADPVLHNTLHGLTGLGTTIQSPVPIGFSFREWGPQAGPPPLSRYSQSYTCN 360
DB 301 SESWADPVLHNTLHGLTGLGTTIQSPVPIGFSFREWGPQAGPPPLSRYSQSYTCN 360

QY 361 QECDCNCLNATLSFNTIILRSGERVVSVYSAVAVAHALHSLGCDKSTCTKRVVYPWQL 420
DB 361 QECDCNCLNATLSFNTIILRSGERVVSVYSAVAVAHALHSLGCDKSTCTKRVVYPWQL 420

QY 421 LEEIWKVNTLLDHOIFPDQGVALLHLEIVQWQDRSQNPFGOSVASYYPQLQKNIQD 480
DB 421 LEEIWKVNTLLDHOIFPDQGVALLHLEIVQWQDRSQNPFGOSVASYYPQLQKNIQD 480

QY 481 ISHWTVNTTIPMSKCSKCSGQKKPVGHVCCFECIDCLPGTFLNHTDEYECQACPN 540
DB 481 ISHWTVNTTIPMSKCSKCSGQKKPVGHVCCFECIDCLPGTFLNHTDEYECQACPN 540

QY 541 NEWSYQSETSCFKRQLVFLWEHAPTIAVALLAALGFLSTLAILVIFWRHFQTPVRSAG 600
DB 541 NEWSYQSETSCFKRQLVFLWEHAPTIAVALLAALGFLSTLAILVIFWRHFQTPVRSAG 600
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QY 181 LRTTSDADHVEAMVQLMLHFRWNIIIVLVSSDTYGRDNGQLLGERVARRDICIATFQETL 240
DB 181 LRTTSDADHVEAMVQLMLHFRWNIIIVLVSSDTYGRDNGQLLGERVARRDICIATFQETL 240
QY 241 PTLQPNQNTSEERQRLVTIVDKLQOSTARVVVVFSPDLTLVHFNEVLNQFTGAVMIA 300
DB 241 PTLQPNQNTSEERQRLVTIVDKLQOSTARVVVVFSPDLTLVHFNEVLNQFTGAVMIA 300
QY 301 SESWAIDPVHLNLTGHLGTLGTLTIGTITQSVPIPGFSEFREWGPQAGPPPLSRTSOTCN 360
DB 301 SESWAIDPVHLNLTGHLGTLGTLTIGTITQSVPIPGFSEFREWGPQAGPPPLSRTSOTCN 360
QY 361 QECNCLNATLSFNTILRLSGERVVYSVAVAHALHSLGCDKSTCKRVVYPWQL 420
DB 361 QECNCLNATLSFNTILRLSGERVVYSVAVAHALHSLGCDKSTCKRVVYPWQL 420
QY 421 LEEIWKVNTLDDHOIFPDPOGDVALHLEIVQWQDRSQNPQSVASYYPQLQRLKNIQD 480
DB 421 LEEIWKVNTLDDHOIFPDPOGDVALHLEIVQWQDRSQNPQSVASYYPQLQRLKNIQD 480
QY 481 ISWHTVNNITPMSCKSKRCQSGOKKPVGIHVCCFECIDCLPGTFLNHTDEYEQAACP 540
DB 481 ISWHTVNNITPMSCKSKRCQSGOKKPVGIHVCCFECIDCLPGTFLNHTDEYEQAACP 540
QY 541 NEWSQSETSCFKROLVLEWHEAPTIIVALLAALGFLSTLAILVIFWRHFOTPIVRSAG 600
DB 541 NEWSQSETSCFKROLVLEWHEAPTIIVALLAALGFLSTLAILVIFWRHFOTPIVRSAG 600
QY 601 GPMCFMLTLTLLVAVMVPVYVGGPKVSTCLCRQALFPLCFTICISCIATVRSFQIVCAPK 660
DB 601 GPMCFMLTLTLLVAVMVPVYVGGPKVSTCLCRQALFPLCFTICISCIATVRSFQIVCAPK 660
QY 661 MASREPRAYSVMRYQGPVSMFIVLKMVIWVIGMLATGLSPTRTDPDDPKITIVSC 720
DB 661 MASREPRAYSVMRYQGPVSMFIVLKMVIWVIGMLATGLSPTRTDPDDPKITIVSC 720
QY 721 NPNYRNSLLFNTSLDLSLVGVGFSFAYMGKELPTNYNEAKFTILSMYFTSSVSLCTFM 780
DB 721 NPNYRNSLLFNTSLDLSLVGVGFSFAYMGKELPTNYNEAKFTILSMYFTSSVSLCTFM 780
QY 781 SAYSGVLVTIVDLLVTVLNLLAISLGYPGPKCYMILFYPERNTPAYFNMIQGYTMRD 839
DB 781 SAYSGVLVTIVDLLVTVLNLLAISLGYPGPKCYMILFYPERNTPAYFNMIQGYTMRD 839

RESULT 8

US-10-725-276-21
; Sequence 21, Application US/10725276
; Publication No. US20040209286A1
; GENERAL INFORMATION:
; APPLICANT: ADLER, JON ELLIOT
; APPLICANT: LI, XIAODONG
; APPLICANT: STASZEWSKI, LENA
; APPLICANT: O'CONNELL, SHAWN
; APPLICANT: ZOZULYA, SERGEY
; TITLE OF INVENTION: T1R TASTE RECEPTORS AND GENES ENCODING SAME
; FILE REFERENCE: 078003-0280681
; CURRENT APPLICATION NUMBER: US/10/725,276
; CURRENT FILING DATE: 2003-12-02
; PRIOR APPLICATION NUMBER: 60/259,227
; PRIOR FILING DATE: 2001-01-03
; PRIOR APPLICATION NUMBER: 60/284,547
; PRIOR FILING DATE: 2001-04-19
; NUMBER OF SEQ ID NOS: 24
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 21
; LENGTH: 839
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-725-276-21

Query Match 100.0%; Score 4443; DB 4; Length 839;

Best Local Similarity 100.0%; Pred. No. 0;
Matches 839; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 MGPRAKTICISLFFLLWLAEPAENSDFYLPDGYLLGGLFSLHANMKGIVHLNLFQVPMCK 60
DB 1 MGPRAKTICISLFFLLWLAEPAENSDFYLPDGYLLGGLFSLHANMKGIVHLNLFQVPMCK 60
QY 61 EYEVKVIQYNLMQAMRFAVESINNDSSLLPGVLGYEIVDVYCIYINNVPVLYFLAHEDN 120
DB 61 EYEVKVIQYNLMQAMRFAVESINNDSSLLPGVLGYEIVDVYCIYINNVPVLYFLAHEDN 120
QY 121 LLPTQEDYSNYSIRVAVIGPDNSVMTVANFLSLFLLPQITYSASIDELRDKVRFPAL 180
DB 121 LLPTQEDYSNYSIRVAVIGPDNSVMTVANFLSLFLLPQITYSASIDELRDKVRFPAL 180
QY 181 LRTTSDADHVEAMVQLMLHFRWNIIIVLVSSDTYGRDNGQLLGERVARRDICIATFQETL 240
DB 181 LRTTSDADHVEAMVQLMLHFRWNIIIVLVSSDTYGRDNGQLLGERVARRDICIATFQETL 240
QY 241 PTLQPNQNTSEERQRLVTIVDKLQOSTARVVVVFSPDLTLVHFNEVLNQFTGAVMIA 300
DB 241 PTLQPNQNTSEERQRLVTIVDKLQOSTARVVVVFSPDLTLVHFNEVLNQFTGAVMIA 300
QY 301 SESWAIDPVHLNLTGHLGTLGTLTIGTITQSVPIPGFSEFREWGPQAGPPPLSRTSOTCN 360
DB 301 SESWAIDPVHLNLTGHLGTLGTLTIGTITQSVPIPGFSEFREWGPQAGPPPLSRTSOTCN 360
QY 361 QECNCLNATLSFNTILRLSGERVVYSVAVAHALHSLGCDKSTCKRVVYPWQL 420
DB 361 QECNCLNATLSFNTILRLSGERVVYSVAVAHALHSLGCDKSTCKRVVYPWQL 420
QY 421 LEEIWKVNTLDDHOIFPDPOGDVALHLEIVQWQDRSQNPQSVASYYPQLQRLKNIQD 480
DB 421 LEEIWKVNTLDDHOIFPDPOGDVALHLEIVQWQDRSQNPQSVASYYPQLQRLKNIQD 480
QY 481 ISWHTVNNITPMSCKSKRCQSGOKKPVGIHVCCFECIDCLPGTFLNHTDEYEQAACP 540
DB 481 ISWHTVNNITPMSCKSKRCQSGOKKPVGIHVCCFECIDCLPGTFLNHTDEYEQAACP 540
QY 541 NEWSQSETSCFKROLVLEWHEAPTIIVALLAALGFLSTLAILVIFWRHFOTPIVRSAG 600
DB 541 NEWSQSETSCFKROLVLEWHEAPTIIVALLAALGFLSTLAILVIFWRHFOTPIVRSAG 600
QY 601 GPMCFMLTLTLLVAVMVPVYVGGPKVSTCLCRQALFPLCFTICISCIATVRSFQIVCAPK 660
DB 601 GPMCFMLTLTLLVAVMVPVYVGGPKVSTCLCRQALFPLCFTICISCIATVRSFQIVCAPK 660
QY 661 MASREPRAYSVMRYQGPVSMFIVLKMVIWVIGMLATGLSPTRTDPDDPKITIVSC 720
DB 661 MASREPRAYSVMRYQGPVSMFIVLKMVIWVIGMLATGLSPTRTDPDDPKITIVSC 720
QY 721 NPNYRNSLLFNTSLDLSLVGVGFSFAYMGKELPTNYNEAKFTILSMYFTSSVSLCTFM 780
DB 721 NPNYRNSLLFNTSLDLSLVGVGFSFAYMGKELPTNYNEAKFTILSMYFTSSVSLCTFM 780
QY 781 SAYSGVLVTIVDLLVTVLNLLAISLGYPGPKCYMILFYPERNTPAYFNMIQGYTMRD 839
DB 781 SAYSGVLVTIVDLLVTVLNLLAISLGYPGPKCYMILFYPERNTPAYFNMIQGYTMRD 839

RESULT 9

US-10-770-127-198
; Sequence 198, Application US/10770127
; Publication No. US20040214239A1
; GENERAL INFORMATION:
; APPLICANT: OZECK, MARK
; APPLICANT: BRUST, PAUL
; APPLICANT: XU, HONG
; TITLE OF INVENTION: FUNCTIONAL COUPLING OF T1RS AND T2RS BY GI PROTEINS
; TITLE OF INVENTION: AND CELL-BASED ASSAYS FOR THE IDENTIFICATION OF T1R
; TITLE OF INVENTION: AND T2R MODULATORS
; FILE REFERENCE: 100337.54281US

; CURRENT APPLICATION NUMBER: US/10/770,127
; CURRENT FILING DATE: 2004-02-03
; PRIOR APPLICATION NUMBER: 60/444,172
; PRIOR FILING DATE: 2003-02-03
; PRIOR APPLICATION NUMBER: 60/457,318
; PRIOR FILING DATE: 2003-03-26
; NUMBER OF SEQ ID NOS: 210
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 198
; LENGTH: 839
; TYPE: PRT
; ORGANISM: Homo sapiens
; ORGANISM: Homo sapiens
US-10-770-127-198

Query Match 100.0%; Score 4443; DB 4; Length 839;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 839; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 MGPRATKICSLFLLWVLAEPANSDYLPDGYLLGGLFSLHANMKGI VHLNFIQVPMCK 60
DB 1 MGPRATKICSLFLLWVLAEPANSDYLPDGYLLGGLFSLHANMKGI VHLNFIQVPMCK 60
QY 61 EYEVKVGYNLMQAMFAVEEINNDSLLPGVLLGYEIVDVVCYISNNVQPVLYFLAHEDN 120
DB 61 EYEVKVGYNLMQAMFAVEEINNDSLLPGVLLGYEIVDVVCYISNNVQPVLYFLAHEDN 120
QY 121 LLPIQEDYNSYISRVVAVIGPNSESVMTVANFLSLFLPQITYSAISDELKDKVRFPAL 180
DB 121 LLPIQEDYNSYISRVVAVIGPNSESVMTVANFLSLFLPQITYSAISDELKDKVRFPAL 180
QY 181 LRTTPSADHVEAMVQLMHLFRNWIIVLVSSDTYGRDNGQLLGERVARRDICI AFQETL 240
DB 181 LRTTPSADHVEAMVQLMHLFRNWIIVLVSSDTYGRDNGQLLGERVARRDICI AFQETL 240
QY 241 PTLQPNQNTSEERQLVTIIVDKLQOSTARVVVVFSPDLTLHYHFFNEVL RQNTGAVWIA 300
DB 241 PTLQPNQNTSEERQLVTIIVDKLQOSTARVVVVFSPDLTLHYHFFNEVL RQNTGAVWIA 300
QY 301 SESWADPVLHNLTELGHGTFLGITI IQSVIPGPFSEFREWGPQAGPPPLSRTSQSYTCN 360
DB 301 SESWADPVLHNLTELGHGTFLGITI IQSVIPGPFSEFREWGPQAGPPPLSRTSQSYTCN 360
QY 361 QECNCLNATLSFNTILRLSGERVVSVYSAVAVAHALHSLGCDKSTCTKR VVYPMQL 420
DB 361 QECNCLNATLSFNTILRLSGERVVSVYSAVAVAHALHSLGCDKSTCTKR VVYPMQL 420
QY 421 LEEIKVNFVTLDDHQIFFDPQGDVALHLEIVQWQDRSQNPFOFQSVASYYP LQRLKNIQD 480
DB 421 LEEIKVNFVTLDDHQIFFDPQGDVALHLEIVQWQDRSQNPFOFQSVASYYP LQRLKNIQD 480
QY 481 ISWHTVNTTIPMSMCKRQSGOKKPVGHVCCFECIDCLPGTFLNHTDEYECQACPN 540
DB 481 ISWHTVNTTIPMSMCKRQSGOKKPVGHVCCFECIDCLPGTFLNHTDEYECQACPN 540
QY 541 NEWSYOSETSCFKRQLVFLWEHAPTAVALLAALGFLSTLAILVIFWRHFQTP I VRSAG 600
DB 541 NEWSYOSETSCFKRQLVFLWEHAPTAVALLAALGFLSTLAILVIFWRHFQTP I VRSAG 600
QY 601 GPMCFMLMTLLLVAYMVVPPYVGVSTCLCQALFPLCTTICISCI AVRSFOIVCAFK 660
DB 601 GPMCFMLMTLLLVAYMVVPPYVGVSTCLCQALFPLCTTICISCI AVRSFOIVCAFK 660
QY 661 MASRFPRAYSYWRVYQGPVYSMAFIVLWKVIVVIGMLATGLSPTRTDDPKIIVSC 720
DB 661 MASRFPRAYSYWRVYQGPVYSMAFIVLWKVIVVIGMLATGLSPTRTDDPKIIVSC 720
QY 721 NPNYRSLLENTSLDILLVVGVSFAVMGKELPTNYNEAKFITLSMTFYFTSSVSLCTFM 780
DB 721 NPNYRSLLENTSLDILLVVGVSFAVMGKELPTNYNEAKFITLSMTFYFTSSVSLCTFM 780
QY 781 SAYSGVLVTIVDLLVTVLNLLAISLGYFGPKCYMLFPYPERNTPAYFNSMIQGYTMRD 839
DB 781 SAYSGVLVTIVDLLVTVLNLLAISLGYFGPKCYMLFPYPERNTPAYFNSMIQGYTMRD 839

RESULT 10
US-10-725-284-21
; Sequence 21, Application US/10725284
; Publication No. US20050032158A1
; GENERAL INFORMATION:
; APPLICANT: ADLER, JON ELLIOT
; APPLICANT: LI, XIADONG
; APPLICANT: STASZEWSKI, LENA
; APPLICANT: O'CONNELL, SHAWN
; APPLICANT: ZOZULYA, SERGEY
; TITLE OF INVENTION: TIR TASTE RECEPTORS AND GENES ENCODING SAME
; FILE REFERENCE: 078003-0280681
; CURRENT APPLICATION NUMBER: US/10/725,284
; CURRENT FILING DATE: 2003-12-02
; PRIOR APPLICATION NUMBER: 60/259,227
; PRIOR FILING DATE: 2001-01-03
; PRIOR APPLICATION NUMBER: 60/284,547
; PRIOR FILING DATE: 2001-04-19
; NUMBER OF SEQ ID NOS: 24
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 21
; LENGTH: 839
; TYPE: PRT
; ORGANISM: Homo sapiens
; ORGANISM: Homo sapiens
US-10-725-284-21

Query Match 100.0%; Score 4443; DB 5; Length 839;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 839; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 MGPRATKICSLFLLWVLAEPANSDYLPDGYLLGGLFSLHANMKGI VHLNFIQVPMCK 60
DB 1 MGPRATKICSLFLLWVLAEPANSDYLPDGYLLGGLFSLHANMKGI VHLNFIQVPMCK 60
QY 61 EYEVKVGYNLMQAMFAVEEINNDSLLPGVLLGYEIVDVVCYISNNVQPVLYFLAHEDN 120
DB 61 EYEVKVGYNLMQAMFAVEEINNDSLLPGVLLGYEIVDVVCYISNNVQPVLYFLAHEDN 120
QY 121 LLPIQEDYNSYISRVVAVIGPNSESVMTVANFLSLFLPQITYSAISDELKDKVRFPAL 180
DB 121 LLPIQEDYNSYISRVVAVIGPNSESVMTVANFLSLFLPQITYSAISDELKDKVRFPAL 180
QY 181 LRTTPSADHVEAMVQLMHLFRNWIIVLVSSDTYGRDNGQLLGERVARRDICI AFQETL 240
DB 181 LRTTPSADHVEAMVQLMHLFRNWIIVLVSSDTYGRDNGQLLGERVARRDICI AFQETL 240
QY 241 PTLQPNQNTSEERQLVTIIVDKLQOSTARVVVVFSPDLTLHYHFFNEVL RQNTGAVWIA 300
DB 241 PTLQPNQNTSEERQLVTIIVDKLQOSTARVVVVFSPDLTLHYHFFNEVL RQNTGAVWIA 300
QY 301 SESWADPVLHNLTELGHGTFLGITI IQSVIPGPFSEFREWGPQAGPPPLSRTSQSYTCN 360
DB 301 SESWADPVLHNLTELGHGTFLGITI IQSVIPGPFSEFREWGPQAGPPPLSRTSQSYTCN 360
QY 361 QECNCLNATLSFNTILRLSGERVVSVYSAVAVAHALHSLGCDKSTCTKR VVYPMQL 420
DB 361 QECNCLNATLSFNTILRLSGERVVSVYSAVAVAHALHSLGCDKSTCTKR VVYPMQL 420
QY 421 LEEIKVNFVTLDDHQIFFDPQGDVALHLEIVQWQDRSQNPFOFQSVASYYP LQRLKNIQD 480
DB 421 LEEIKVNFVTLDDHQIFFDPQGDVALHLEIVQWQDRSQNPFOFQSVASYYP LQRLKNIQD 480
QY 481 ISWHTVNTTIPMSMCKRQSGOKKPVGHVCCFECIDCLPGTFLNHTDEYECQACPN 540
DB 481 ISWHTVNTTIPMSMCKRQSGOKKPVGHVCCFECIDCLPGTFLNHTDEYECQACPN 540
QY 541 NEWSYOSETSCFKRQLVFLWEHAPTAVALLAALGFLSTLAILVIFWRHFQTP I VRSAG 600
DB 541 NEWSYOSETSCFKRQLVFLWEHAPTAVALLAALGFLSTLAILVIFWRHFQTP I VRSAG 600
QY 601 GPMCFMLMTLLLVAYMVVPPYVGVSTCLCQALFPLCTTICISCI AVRSFOIVCAFK 660
DB 601 GPMCFMLMTLLLVAYMVVPPYVGVSTCLCQALFPLCTTICISCI AVRSFOIVCAFK 660

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Db 601 GPMCFMLTLLVAVYVGVPPKVTCLCRQALFPLCTTICISCIASVRSFQIVCAFK 660
Qy 661 MASRFPRAYSYWRVYQGPVSMFATVLMQVIVWIGMLATGLSPTRTDDPKITIVSC 720
Db 661 MASRFPRAYSYWRVYQGPVSMFATVLMQVIVWIGMLATGLSPTRTDDPKITIVSC 720
Qy 721 NPNYRNSLLFNTSLDLLSVGVGSFAYMGKELPTNYNEAKFTILSWTFYFTSSVSLCTFM 780
Db 721 NPNYRNSLLFNTSLDLLSVGVGSFAYMGKELPTNYNEAKFTILSWTFYFTSSVSLCTFM 780
Qy 781 SAYSGVLVTIVDLLVTVLNLALSLGYFGPKCYMILFYPERNTPAYFNSMIQGYTMRD 839
Db 781 SAYSGVLVTIVDLLVTVLNLALSLGYFGPKCYMILFYPERNTPAYFNSMIQGYTMRD 839

RESULT 11
US-10-725-418-6
; Sequence 6, Application US/10725418
; Publication No. US20050084932A1
; GENERAL INFORMATION:
; APPLICANT: ZOLLER, MARK
; APPLICANT: LI, XIADONG
; APPLICANT: STASZEWSKI, LENA
; APPLICANT: O'CONNELL, SHAWN
; APPLICANT: ZOZULYA, SERGEY
; APPLICANT: ADLER, JON
; APPLICANT: XU, HONG
; APPLICANT: ECHVERRI, FERNANDO
; TITLE OF INVENTION: T1R HETERO-OLIGOMERIC TASTE RECEPTORS AND CELL LINES
; TITLE OF INVENTION: THAT EXPRESS SAID RECEPTORS AND USE THEREOF FOR
; TITLE OF INVENTION: IDENTIFICATION OF TASTE COMPOUNDS
; FILE REFERENCE: 078003-0291566
; CURRENT FILING DATE: 2003-12-03
; PRIOR APPLICATION NUMBER: US/10/725,418
; PRIOR FILING DATE: 2003-12-03
; PRIOR APPLICATION NUMBER: 60/300,434
; PRIOR FILING DATE: 2001-06-26
; PRIOR APPLICATION NUMBER: 60/304,749
; PRIOR FILING DATE: 2001-07-13
; PRIOR APPLICATION NUMBER: 60/310,493
; PRIOR FILING DATE: 2001-08-08
; PRIOR APPLICATION NUMBER: 60/331,771
; PRIOR FILING DATE: 2001-11-21
; PRIOR APPLICATION NUMBER: 60/339,472
; PRIOR FILING DATE: 2001-12-14
; PRIOR APPLICATION NUMBER: 60/372,090
; PRIOR FILING DATE: 2002-04-15
; PRIOR APPLICATION NUMBER: 60/374,143
; PRIOR FILING DATE: 2002-04-22
; NUMBER OF SEQ ID NOS: 19
; SOFTWARE: Patent In Ver. 2.1
; SEQ ID NO 6
; LENGTH: 839
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-725-418-6

Query Match 100.0%; Score 4443; DB 5; Length 839;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 839; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 MGPRAKTICSLFLLVLAEPNDSDFYLPBGDYLGLPSLHANKKGIIVHMLFLOVPMCK 60
Db 1 MGPRAKTICSLFLLVLAEPNDSDFYLPBGDYLGLPSLHANKKGIIVHMLFLOVPMCK 60
Qy 61 EYEVKIVGNLQAMRFAVEETINDDSLPGVLLGVEIVDVCIYISNNQPVLYFLAHEN 120
Db 61 EYEVKIVGNLQAMRFAVEETINDDSLPGVLLGVEIVDVCIYISNNQPVLYFLAHEN 120
Qy 121 LLPIQEDYSNYSIRVVAVIGPDNSSEVMTVANFLSLFLLPQITYSAISDELKRVFPAL 180
Db 121 LLPIQEDYSNYSIRVVAVIGPDNSSEVMTVANFLSLFLLPQITYSAISDELKRVFPAL 180
```

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Qy 181 LRTTPSADHHVEAMVQLMLHFRWNWIIVLVSSDTYGRDNGOLLGERVARRDICIIFOETL 240
Db 181 LRTTPSADHHVEAMVQLMLHFRWNWIIVLVSSDTYGRDNGOLLGERVARRDICIIFOETL 240
Qy 241 PTLQPNQMTSEERQRLVTIIVDKLQOSTARVVVSPDLTLYHFFNEVLNQFTCAVWIA 300
Db 241 PTLQPNQMTSEERQRLVTIIVDKLQOSTARVVVSPDLTLYHFFNEVLNQFTCAVWIA 300
Qy 301 SESWAIDPVLNLTGLHGLTGLTIGTOSVPIPGSEFREWGPQAGPPLSRTSOSYCN 360
Db 301 SESWAIDPVLNLTGLHGLTGLTIGTOSVPIPGSEFREWGPQAGPPLSRTSOSYCN 360
Qy 361 QECNCLNATISENTILRLSGERVVYSVAVAHALHSLGCDKCTCKRVVYPWOL 420
Db 361 QECNCLNATISENTILRLSGERVVYSVAVAHALHSLGCDKCTCKRVVYPWOL 420
Qy 421 LEEIWKVNFTLLDHOIFPDPOGDVALHLEIVQWQWDRSQNPFSQSVASYYPQLQRLKNIQD 480
Db 421 LEEIWKVNFTLLDHOIFPDPOGDVALHLEIVQWQWDRSQNPFSQSVASYYPQLQRLKNIQD 480
Qy 481 ISWHTVNNTIPMSMCKRCQSGQKKPVGIIHVCCPECIDCLPGTFLNHTEDBYEQACP 540
Db 481 ISWHTVNNTIPMSMCKRCQSGQKKPVGIIHVCCPECIDCLPGTFLNHTEDBYEQACP 540
Qy 541 NEWSYQSETSCFKQLVLEWHEAPTIAVALLAALGFLSTLAILVIFWRHFOTPIVRSG 600
Db 541 NEWSYQSETSCFKQLVLEWHEAPTIAVALLAALGFLSTLAILVIFWRHFOTPIVRSG 600
Qy 601 GPMCFMLTLLVAVYVGVPPKVTCLCRQALFPLCTTICISCIASVRSFQIVCAFK 660
Db 601 GPMCFMLTLLVAVYVGVPPKVTCLCRQALFPLCTTICISCIASVRSFQIVCAFK 660
Qy 661 MASRFPRAYSYWRVYQGPVSMFATVLMQVIVWIGMLATGLSPTRTDDPKITIVSC 720
Db 661 MASRFPRAYSYWRVYQGPVSMFATVLMQVIVWIGMLATGLSPTRTDDPKITIVSC 720
Qy 721 NPNYRNSLLFNTSLDLLSVGVGSFAYMGKELPTNYNEAKFTILSWTFYFTSSVSLCTFM 780
Db 721 NPNYRNSLLFNTSLDLLSVGVGSFAYMGKELPTNYNEAKFTILSWTFYFTSSVSLCTFM 780
Qy 781 SAYSGVLVTIVDLLVTVLNLALSLGYFGPKCYMILFYPERNTPAYFNSMIQGYTMRD 839
Db 781 SAYSGVLVTIVDLLVTVLNLALSLGYFGPKCYMILFYPERNTPAYFNSMIQGYTMRD 839

RESULT 12
US-10-679-102-29
; Sequence 29, Application US/10679102
; Publication No. US20050106571A1
; GENERAL INFORMATION:
; APPLICANT: Erlenbach, Isolde
; APPLICANT: Ryba, Nicholas J. P.
; APPLICANT: Zhao, Grace
; APPLICANT: Zuker, Charles S.
; APPLICANT: The Regents of the University of California
; APPLICANT: The Government of the United States of America
; APPLICANT: as represented by Their Secretary of the
; APPLICANT: Department of Health and Human Services
; TITLE OF INVENTION: Mammalian T1R3 Sweet Taste Receptors
; FILE REFERENCE: 02307E-140800US
; CURRENT APPLICATION NUMBER: US/10/679,102
; CURRENT FILING DATE: 2003-10-02
; NUMBER OF SEQ ID NOS: 32
; SOFTWARE: Patent In Ver. 2.1
; SEQ ID NO 29
; LENGTH: 839
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; OTHER INFORMATION: human T1R2 G-protein coupled receptor sweet taste
; OTHER INFORMATION: receptor
US-10-679-102-29
```

Query Match 100.0%; Score 4443; DB 5; Length 839;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 839; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MGPRAKTICSLFLLVLAEPANSDFYLPBGDYLGLGFLSLHANMKGI VHLNLFQVPMCK 60
DB 1 MGPRAKTICSLFLLVLAEPANSDFYLPBGDYLGLGFLSLHANMKGI VHLNLFQVPMCK 60

QY 61 EYEVKVI GYNLMQAMRFAVEEINNDSSLLPGVLLGYEIVDVVYISNNVQPVLYFLAHEDN 120
DB 61 EYEVKVI GYNLMQAMRFAVEEINNDSSLLPGVLLGYEIVDVVYISNNVQPVLYFLAHEDN 120

QY 121 LPIQEDYSNYISRVAVIGPNDSVMTVANFLSLFLLPQITYSAISDELDRKVRFPAL 180
DB 121 LPIQEDYSNYISRVAVIGPNDSVMTVANFLSLFLLPQITYSAISDELDRKVRFPAL 180

QY 181 LRTTSPADHVEAMVQLMHLFRWNIIIVLVSSDTYGRDNGQLLGERVARRDICI AFOETL 240
DB 181 LRTTSPADHVEAMVQLMHLFRWNIIIVLVSSDTYGRDNGQLLGERVARRDICI AFOETL 240

QY 241 PTLQPNQNMNTSBERQLVTIVDKLQOSTARVVVVFSPDLTLVYHFFNEVLRQNFAGVWIA 300
DB 241 PTLQPNQNMNTSBERQLVTIVDKLQOSTARVVVVFSPDLTLVYHFFNEVLRQNFAGVWIA 300

QY 301 SESWAIDPVHLNLTGLHGTFLGITI QSVPIPGFSEFREWGPQAGPPPLSRTSQTCTN 360
DB 301 SESWAIDPVHLNLTGLHGTFLGITI QSVPIPGFSEFREWGPQAGPPPLSRTSQTCTN 360

QY 361 QECDCNCLNATLNTLRLSGERVYVSVYSAVAVAHALHSLGCDKSTCTKRVVVPWL 420
DB 361 QECDCNCLNATLNTLRLSGERVYVSVYSAVAVAHALHSLGCDKSTCTKRVVVPWL 420

QY 421 LBEIWKVNTFLDHOIFDPQGDVALHLEIVQWDRSQNPFSQVASYYPQLQKNIQD 480
DB 421 LBEIWKVNTFLDHOIFDPQGDVALHLEIVQWDRSQNPFSQVASYYPQLQKNIQD 480

QY 481 ISWHTVNNITPMSCKRQSGQKKPVGIHVCCFECIDCLPGTFLNHTDEYECQACPN 540
DB 481 ISWHTVNNITPMSCKRQSGQKKPVGIHVCCFECIDCLPGTFLNHTDEYECQACPN 540

QY 541 NEWSYQSETSCFQRQLVFLWEHAPTIAVALLAALGFLSTLAILVIFWRHFQTPIVRSAG 600
DB 541 NEWSYQSETSCFQRQLVFLWEHAPTIAVALLAALGFLSTLAILVIFWRHFQTPIVRSAG 600

QY 601 GPMCFMLTLLVAYMVVVPVGPVKVSTCLCQALFPLCFTTICISCIASVRSFQIVCAFK 660
DB 601 GPMCFMLTLLVAYMVVVPVGPVKVSTCLCQALFPLCFTTICISCIASVRSFQIVCAFK 660

QY 661 MASRFPRAYSYVRYQGPVYSMAFITVLKMWIVVIGMLATGLSPTRTDDPKITIVSC 720
DB 661 MASRFPRAYSYVRYQGPVYSMAFITVLKMWIVVIGMLATGLSPTRTDDPKITIVSC 720

QY 721 NPNYRSLPNTSLDILLSVVGFSPAYMGKELPTNYNEAKFITLSMTFYFTSSVSLCTFM 780
DB 721 NPNYRSLPNTSLDILLSVVGFSPAYMGKELPTNYNEAKFITLSMTFYFTSSVSLCTFM 780

QY 781 SAYSGVLVTIVDLLVTLNLLAISLGYFGPKCYMILFYPERNTPAYFNSMIQGYTMRD 839
DB 781 SAYSGVLVTIVDLLVTLNLLAISLGYFGPKCYMILFYPERNTPAYFNSMIQGYTMRD 839

RESULT 13

US-10-246-785-4
; Sequence 4, Application US/10246785
; Publication No. US20030148448A1
; GENERAL INFORMATION:
; APPLICANT: IRM, LLC
; APPLICANT: The Scripps Research Institute
; APPLICANT: Liao, Jiyao
; APPLICANT: Sheng, Ding
; APPLICANT: Schultz, Peter G
; TITLE OF INVENTION: Sweet Taste Receptors
; FILE REFERENCE: 36-002810US/PC

; CURRENT APPLICATION NUMBER: US/10/246,785
; CURRENT FILING DATE: 2002-12-09
; PRIOR APPLICATION NUMBER: US 60/323,450
; PRIOR FILING DATE: 2001-09-18
; NUMBER OF SEQ ID NOS: 22
; SOFTWARE: Patentin version 3.1
; SEQ ID NO 4
; LENGTH: 839
; TYPE: PRT
; ORGANISM: Homo sapiens
; US-10-246-785-4

Query Match 99.5%; Score 4422; DB 4; Length 839;

Best Local Similarity 99.4%; Pred. No. 0;
Matches 834; Conservative 2; Mismatches 3; Indels 0; Gaps 0;

QY 1 MGPRAKTICSLFLLVLAEPANSDFYLPBGDYLGLGFLSLHANMKGI VHLNLFQVPMCK 60
DB 1 MGPRAKTICSLFLLVLAEPANSDFYLPBGDYLGLGFLSLHANMKGI VHLNLFQVPMCK 60

QY 61 EYEVKVI GYNLMQAMRFAVEEINNDSSLLPGVLLGYEIVDVVYISNNVQPVLYFLAHEDN 120
DB 61 EYEVKVI GYNLMQAMRFAVEEINNDSSLLPGVLLGYEIVDVVYISNNVQPVLYFLAHEDN 120

QY 121 LPIQEDYSNYISRVAVIGPNDSVMTVANFLSLFLLPQITYSAISDELDRKVRFPAL 180
DB 121 LPIQEDYSNYISRVAVIGPNDSVMTVANFLSLFLLPQITYSAISDELDRKVRFPAL 180

QY 181 LRTTSPADHVEAMVQLMHLFRWNIIIVLVSSDTYGRDNGQLLGERVARRDICI AFOETL 240
DB 181 LRTTSPADHVEAMVQLMHLFRWNIIIVLVSSDTYGRDNGQLLGERVARRDICI AFOETL 240

QY 241 PTLQPNQNMNTSBERQLVTIVDKLQOSTARVVVVFSPDLTLVYHFFNEVLRQNFAGVWIA 300
DB 241 PTLQPNQNMNTSBERQLVTIVDKLQOSTARVVVVFSPDLTLVYHFFNEVLRQNFAGVWIA 300

QY 301 SESWAIDPVHLNLTGLHGTFLGITI QSVPIPGFSEFREWGPQAGPPPLSRTSQTCTN 360
DB 301 SESWAIDPVHLNLTGLHGTFLGITI QSVPIPGFSEFREWGPQAGPPPLSRTSQTCTN 360

QY 361 QECDCNCLNATLNTLRLSGERVYVSVYSAVAVAHALHSLGCDKSTCTKRVVVPWL 420
DB 361 QECDCNCLNATLNTLRLSGERVYVSVYSAVAVAHALHSLGCDKSTCTKRVVVPWL 420

QY 421 LBEIWKVNTFLDHOIFDPQGDVALHLEIVQWDRSQNPFSQVASYYPQLQKNIQD 480
DB 421 LBEIWKVNTFLDHOIFDPQGDVALHLEIVQWDRSQNPFSQVASYYPQLQKNIQD 480

QY 481 ISWHTVNNITPMSCKRQSGQKKPVGIHVCCFECIDCLPGTFLNHTDEYECQACPN 540
DB 481 ISWHTVNNITPMSCKRQSGQKKPVGIHVCCFECIDCLPGTFLNHTDEYECQACPN 540

QY 541 NEWSYQSETSCFQRQLVFLWEHAPTIAVALLAALGFLSTLAILVIFWRHFQTPIVRSAG 600
DB 541 NEWSYQSETSCFQRQLVFLWEHAPTIAVALLAALGFLSTLAILVIFWRHFQTPIVRSAG 600

QY 601 GPMCFMLTLLVAYMVVVPVGPVKVSTCLCQALFPLCFTTICISCIASVRSFQIVCAFK 660
DB 601 GPMCFMLTLLVAYMVVVPVGPVKVSTCLCQALFPLCFTTICISCIASVRSFQIVCAFK 660

QY 661 MASRFPRAYSYVRYQGPVYSMAFITVLKMWIVVIGMLATGLSPTRTDDPKITIVSC 720
DB 661 MASRFPRAYSYVRYQGPVYSMAFITVLKMWIVVIGMLATGLSPTRTDDPKITIVSC 720

QY 721 NPNYRSLPNTSLDILLSVVGFSPAYMGKELPTNYNEAKFITLSMTFYFTSSVSLCTFM 780
DB 721 NPNYRSLPNTSLDILLSVVGFSPAYMGKELPTNYNEAKFITLSMTFYFTSSVSLCTFM 780

QY 781 SAYSGVLVTIVDLLVTLNLLAISLGYFGPKCYMILFYPERNTPAYFNSMIQGYTMRD 839
DB 781 SAYSGVLVTIVDLLVTLNLLAISLGYFGPKCYMILFYPERNTPAYFNSMIQGYTMRD 839

RESULT 14									
US-09-927-315-9									
; Sequence 9, Application US/09927315									
; Publication No. US2003040045A1									
; GENERAL INFORMATION:									
; APPLICANT: Zuker, Charles S.									
; APPLICANT: Ryba, Nicholas J. P.									
; APPLICANT: Nelson, Greg									
; APPLICANT: Hoon, Mark A.									
; APPLICANT: Chandrashekar, Jayaram									
; APPLICANT: Zhang, Yifeng									
; APPLICANT: The Regents of the University of California									
; APPLICANT: as represented by the Secretary of the									
; APPLICANT: Department of Health and Human Services									
; TITLE OF INVENTION: Mammalian Sweet Taste Receptors									
; FILE REFERENCE: 02307E-120110US									
; CURRENT APPLICATION NUMBER: US/09/927,315									
; CURRENT FILING DATE: 2001-08-10									
; PRIOR APPLICATION NUMBER: US 60/302,898									
; PRIOR FILING DATE: 2001-07-03									
; NUMBER OF SEQ ID NOS: 25									
; SOFTWARE: PatentIn Ver. 2.1									
; SEQ ID NO 9									
; LENGTH: 838									
; TYPE: PRT									
; ORGANISM: Homo sapiens									
; FEATURE:									
; OTHER INFORMATION: human T1R2 sweet taste receptor									
US-09-927-315-9									
Query Match 98.9%; Score 4392.5; DB 3; Length 838;									
Best Local Similarity 99.3%; Pred. No. 0;									
Matches 833; Conservative 0; Mismatches 5; Indels 1; Gaps 1;									
Qy	1	MGPRKTTCSLFFLLWVLAEP	AEENSDFYLP	GDYLLGGLFSLH	ANMKGIVH	LNFLQVPMCK	60		
Db	1	MGPRKTTCSLFFLLWVLAEP	AEENSDFYLP	GDYLLGGLFSLH	ANMKGIVH	LNFLQVPMCK	60		
Qy	61	EYEVKVI	GYNLMQAMRFAVEE	INNDSSLLPGV	LLGYEIVDV	YCIINNVPVLYFLAHEDN	120		
Db	61	EYEVKVI	GYNLMQAMRFAVEE	INNDSSLLPGV	LLGYEIVDV	YCIINNVPVLYFLAHEDN	120		
Qy	121	LLPIQEDY	SNYSIRVAVIGP	DNSSVMTVANF	LSFLLPQITYS	AIISDELDRKVRFPAL	180		
Db	121	LLPIQEDY	SNYSIRVAVIGP	DNSSVMTVANF	LSFLLPQITYS	AIISDELDRKVRFPAL	180		
Qy	181	LRTTSPADH	VEAMVQLM	HFRWNII	VLVSSD	TYGRDNGQLLGRVARRD	240		
Db	181	LRTTSPADH	VEAMVQLM	HFRWNII	VLVSSD	TYGRDNGQLLGRVARRD	240		
Qy	241	PTLPQNQMT	SEERQRLTV	DKLQO	STARVVVVF	SPDLTYHFFNEVLRQNFTGAVMIA	300		
Db	241	PTLPQNQMT	SEERQRLTV	DKLQO	STARVVVVF	SPDLTYHFFNEVLRQNFTGAVMIA	300		
Qy	301	SSSWAID	PVHNLTEL	GHGTFLG	ITQISVPI	PGSEFREWGPQAGPPPLSRTS	360		
Db	301	SSSWAID	PVHNLTEL	GHGTFLG	ITQISVPI	PGSEFREWGPQAGPPPLSRTS	360		
Qy	361	QECDCN	CLNATLSFNT	ILRSLG	RRVVYSVY	SAVAHAHLSLLGCDKSTCTKRVVYPWQL	420		
Db	361	QECDCN	CLNATLSFNT	ILRSLG	RRVVYSVY	SAVAHAHLSLLGCDKSTCTKRVVYPWQL	420		
Qy	421	LEEIKV	NFTLLD	HOIF	DPQGDVALH	LEIVQWDRSQNPQSVASVYPLQRLKNIQD	480		
Db	421	LEEIKV	NFTLLD	HOIF	DPQGDVALH	LEIVQWDRSQNPQSVASVYPLQRLKNIQD	480		
Qy	481	ISWHTV	NNTI	PMSMCS	KRCQSQK	KPKVGIHVCCFECIDCLPGTFLNHTEDYEQACP	540		
Db	481	ISWHTV	NNTI	PMSMCS	KRCQSQK	KPKVGIHVCCFECIDCLPGTFLNHTEDYEQACP	540		
Qy	541	NEWSQ	SETSCFK	RQVLFE	WEHAPTIA	VALLAALGFLSTLAILVFWRH	600		

Db	541	NEWSQ	SETSCFK	RQVLFE	WEHAPTIA	VALLAALGFLSTLAILVFWRH	600		
Qy	601	QPMCF	MLTLLLVAYMV	VPVVGPPK	VSTCLCRQAL	FLPLCFTICISCI	660		
Db	601	QPMCF	MLTLLLVAYMV	VPVVGPPK	VSTCLCRQAL	FLPLCFTICISCI	660		
Qy	661	MASR	PPRAYSVW	RYQGPY	VSMAF	ITVLKMWIVIGMLATGLSP	720		
Db	661	MASR	PPRAYSVW	RYQGPY	VSMAF	ITVLKMWIVIGMLARPOS-HPR	719		
Qy	721	NPYR	NLSL	FNNTSL	DL	LLSVVGFSPAYMGKELPTNYNEAK	780		
Db	720	NPYR	NLSL	FNNTSL	DL	LLSVVGFSPAYMGKELPTNYNEAK	779		
Qy	781	SAYSG	VLTV	VDLLVT	VUNLLAIS	LGYPGPKCYMILFPERNT	839		
Db	780	SAYSG	VLTV	VDLLVT	VUNLLAIS	LGYPGPKCYMILFPERNT	838		

RESULT 15

US-10-190-417-9

; Sequence 9, Application US/10190417

; Publication No. US20030166137A1

; GENERAL INFORMATION:

; APPLICANT: Zuker, Charles S.

; APPLICANT: Ryba, Nicholas J. P.

; APPLICANT: Chandrashekar, Jayaram

; APPLICANT: Hoon, Mark A.

; APPLICANT: Nelson, Greg

; APPLICANT: Zhang, Yifeng

; APPLICANT: The Regents of the University of California

; APPLICANT: as represented by the Secretary of the

; APPLICANT: Department of Health and Human Services

; TITLE OF INVENTION: Mammalian Sweet and Amino Acid Heterodimeric Taste

; FILE REFERENCE: 02307E-120130US

; CURRENT APPLICATION NUMBER: US/10/190,417

; CURRENT FILING DATE: 2002-11-14

; PRIOR APPLICATION NUMBER: US 60/302,898

; PRIOR FILING DATE: 2001-07-03

; PRIOR APPLICATION NUMBER: US 09/927,315

; PRIOR FILING DATE: 2001-08-10

; PRIOR APPLICATION NUMBER: US 60/358,925

; PRIOR FILING DATE: 2002-02-22

; NUMBER OF SEQ ID NOS: 30

; SOFTWARE: PatentIn Ver. 2.1

; SEQ ID NO 9

; LENGTH: 838

; TYPE: PRT

; ORGANISM: Homo sapiens

; FEATURE:

; OTHER INFORMATION: human T1R2

US-10-190-417-9

Query Match 98.9%; Score 4392.5; DB 4; Length 838;

Best Local Similarity 99.3%; Pred. No. 0;

Matches 833; Conservative 0; Mismatches 5; Indels 1; Gaps 1;

Qy 1 MGPRKTTCSLFFLLWVLAEP

AEENSDFYLP

GDYLLGGLFSLH

ANMKGIVH

LNFLQVPMCK 60

Db 1 MGPRKTTCSLFFLLWVLAEP

AEENSDFYLP

GDYLLGGLFSLH

ANMKGIVH

LNFLQVPMCK 60

Qy 61 EYEVKVI

GYNLMQAMRFAVEE

INNDSSLLPGV

LLGYEIVDV

YCIINNVPVLYFLAHEDN 120

Db 61 EYEVKVI

GYNLMQAMRFAVEE

INNDSSLLPGV

LLGYEIVDV

YCIINNVPVLYFLAHEDN 120

Qy 121 LLPIQEDY

SNYSIRVAVIGP

DNSSVMTVANF

LSFLLPQITYS

AIISDELDRKVRFPAL 180

Db 121 LLPIQEDY

SNYSIRVAVIGP

DNSSVMTVANF

LSFLLPQITYS

AIISDELDRKVRFPAL 180

Qy 181 LRTTSPADH

VEAMVQLM

HFRWNII

VLVSSD

TYGRDNGQLLGRVARRD

240

Db 181 LRTTSPADH

VEAMVQLM

HFRWNII

VLVSSD

TYGRDNGQLLGRVARRD

240

Qy 241 PTLPQNQMT

SEERQRLTV

DKLQO

STARVVVVF

SPDLTYHFFNEVLRQNFTGAVMIA 300

Db 241 PTLPQNQMT

SEERQRLTV

DKLQO

STARVVVVF

SPDLTYHFFNEVLRQNFTGAVMIA 300

Qy 301 SSSWAID

PVHNLTEL

GHGTFLG

ITQISVPI

PGSEFREWGPQAGPPPLSRTS

360

Db 301 SSSWAID

PVHNLTEL

GHGTFLG

ITQISVPI

PGSEFREWGPQAGPPPLSRTS

360

Qy 361 QECDCN

CLNATLSFNT

ILRSLG

RRVVYSVY

SAVAHAHLSLLGCDKSTCTKRVVYPWQL 420

Db 361 QECDCN

CLNATLSFNT

ILRSLG

RRVVYSVY

SAVAHAHLSLLGCDKSTCTKRVVYPWQL 420

Qy 421 LEEIKV

NFTLLD

HOIF

DPQGDVALH

LEIVQWDRSQNPQSVASVYPLQRLKNIQD 480

Db 421 LEEIKV

NFTLLD

HOIF

DPQGDVALH

LEIVQWDRSQNPQSVASVYPLQRLKNIQD 480

Qy 481 ISWHTV

NNTI

PMSMCS

KRCQSQK

KPKVGIHVCCFECIDCLPGTFLNHTEDYEQACP

540

Db 481 ISWHTV

NNTI

PMSMCS

KRCQSQK

KPKVGIHVCCFECIDCLPGTFLNHTEDYEQACP

540

Qy 541 NEWSQ

SETSCFK

RQVLFE

WEHAPTIA

VALLAALGFLSTLAILVFWRH

600

Db 181 LRTPSADHVEAMVQLMLHFRWNIIIVLSSDTYGRONGQLLGERVARRDICIAPQETL 240
Qy 241 PTLQPNQNTSEERQRLVTIVDKLQOSTARVVVVFSPDLTLHYHFFNEVLQRNFTGAVMIA 300
Db 241 PTLQPNQNTSEERQRLVTIVDKLQOSTARVVVVFSPDLTLHYHFFNEVLQRNFTGAVMIA 300
Qy 301 SESWALDPVLHNLTELGHTGLGTIGTSVPIPGFSEPREMGPOAGPPPLSRTSOSYTCN 360
Db 301 SESWALDPVLHNLTELGHTGLGTIGTSVPIPGFSEPREMGPOAGPPPLSRTSOSYTCN 360
Qy 361 QECDCNCLNATLSFNILRSGRVVSVYSVAVAHALHSLGCDKSTCTKRVVYPMQL 420
Db 361 QECDCNCLNATLSFNILRSGRVVSVYSVAVAHALHSLGCDKSTCTKRVVYPMQL 420
Qy 421 LBEIWKVNFTLLDHQIFPDPOGDVALHLBIQWQWDRSQNPQSVASYYPLQRLKNIQD 480
Db 421 LBEIWKVNFTLLDHQIFPDPOGDVALHLBIQWQWDRSQNPQSVASYYPLQRLKNIQD 480
Qy 481 ISWHTVNNITIPMSMCSKRCQSGKKKPKVGIHVCCFECIDCLPGTFLNHTDEYEQACFN 540
Db 481 ISWHTVNNITIPMSMCSKRCQSGKKKPKVGIHVCCFECIDCLPGTFLNHTDEYEQACFN 540
Qy 541 NEWSYQSETSCFKRQLVFLWEHEAPTIAVALLAALGFLSTLAILVIFWRHFQTPIVRSAG 600
Db 541 NEWSYQSETSCFKRQLVFLWEHEAPTIAVALLAALGFLSTLAILVIFWRHFQTPIVRSAG 600
Qy 601 GPMCFMLTLLLVAYMVVPPVGVPPKYSTCLCRQALFPLCFTICISCIARSFQIVCAFK 660
Db 601 GPMCFMLTLLLVAYMVVPPVGVPPKYSTCLCRQALFPLCFTICISCIARSFQIVCAFK 660
Qy 661 MASRPPRAYSVWRYQGVVSWAFITVLKQWIVWIGMLATGLSPTRTDPDPKTIIVSC 720
Db 661 MASRPPRAYSVWRYQGVVSWAFITVLKQWIVWIGMLARPOS-HPRTPDPDPKTIIVSC 719
Qy 721 NPNYRNSLLFNSTSLDLLSVGFSPAYMGKELPTNYNEAKFITLSMTFYFTSSVSLCTFM 780
Db 720 NPNYRNSLLFNSTSLDLLSVGFSPAYMGKELPTNYNEAKFITLSMTFYFTSSVSLCTFM 779
Qy 781 SAYSGVLVTIVDLLVTVLNLLAISLGYFGPKCYMILFYPERNTPAYFNSMIQYTWRRD 839
Db 780 SAYSGVLVTIVDLLVTVLNLLAISLGYFGPKCYMILFYPERNTPAYFNSMIQYTWRRD 838

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